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Department of
Agriculture
Soil
Conservation
Service
Boise
Idaho



WATER SUPPLY OUTLOOK FOR IDAHO

in Cooperation with Idaho State Department of Water
Resources, Idaho Soil Conservation Districts, and NOAA,
National Weather Service



April 1, 1984

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Up to 75 percent of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data effecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent as surveyed and marked locations in mountain areas. These measurements are repeated in the same location near the same dates each year. Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Snotel (snow telemetry) networks of automatic snow water equivalent and related data sensing devices, are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. A joint Soil Conservation Service and National Weather Service report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs. This report can be obtained from Soil Conservation Service, National Technical Center, Rm. 510, 511 NW Broadway, Portland, Oregon 97209.

In California, the program is coordinated by the California Department of Water Resources. The Canadian provinces of British Columbia and Alberta have comparable programs.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states.

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	2490 W. 26th Ave., Diamond Hill, Bldg. A, Denver, Colorado 80211
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	Room 443, Federal Building, 10 East Babcock, Bozeman, Montana 59715
Nevada	50 S. Virginia Street, P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	Federal Office Building, 100 East B. Street, Casper, Wyoming 82601

IMPORTANT NOTICE

The Soil Conservation Service is evaluating the present manually read snow course network to determine snow courses that can be dropped from the snow survey network or snow courses where monthly readings can be reduced.

By May 15, please identify the snow course and measurement dates (i.e. January, February, March, etc.) that are essential to your operations. This can be done on the reverse side of this sheet. It would also help if you explained how you use the snowpack data (volume forecast relationship, general snowpack information, resource management, irrigation water management, etc.).

You can staple your response to the inside of the Water Supply Outlook purge card which is also attached to the back of this bulletin or mail it under separate cover to the same address shown on the purge card.

This identification process is the first phase of the evaluation process and will identify courses that can be discontinued without seriously impacting present programs.

The second phase of the evaluation will identify snow courses that are needed but where some or all of the measurements can be accurately estimated from SNOTEL or where they are highly correlated to a nearby snow course.

Other phases of the plan will address areas where additional automated sites are needed or where manual measurements can be made more economically. The overall goal is to provide adequate snow survey information using the most economical and feasible methods available.

CHECK MEASUREMENTS NEEDED

Remarks or Comments _____

Name: _____ Address: _____

WATER SUPPLY OUTLOOK
FOR
IDAHO
and
Federal-State-Private Cooperative Snow Surveys

Issued by
Peter C. Meyers
Chief
Soil Conservation Service
Washington, D. C.

Released by
Stanley N. Hobson
State Conservationist
Soil Conservation Service
Boise, Idaho

In cooperation with
A. Kenneth Dunn
Director
Idaho Department of Water Resources
Boise, Idaho

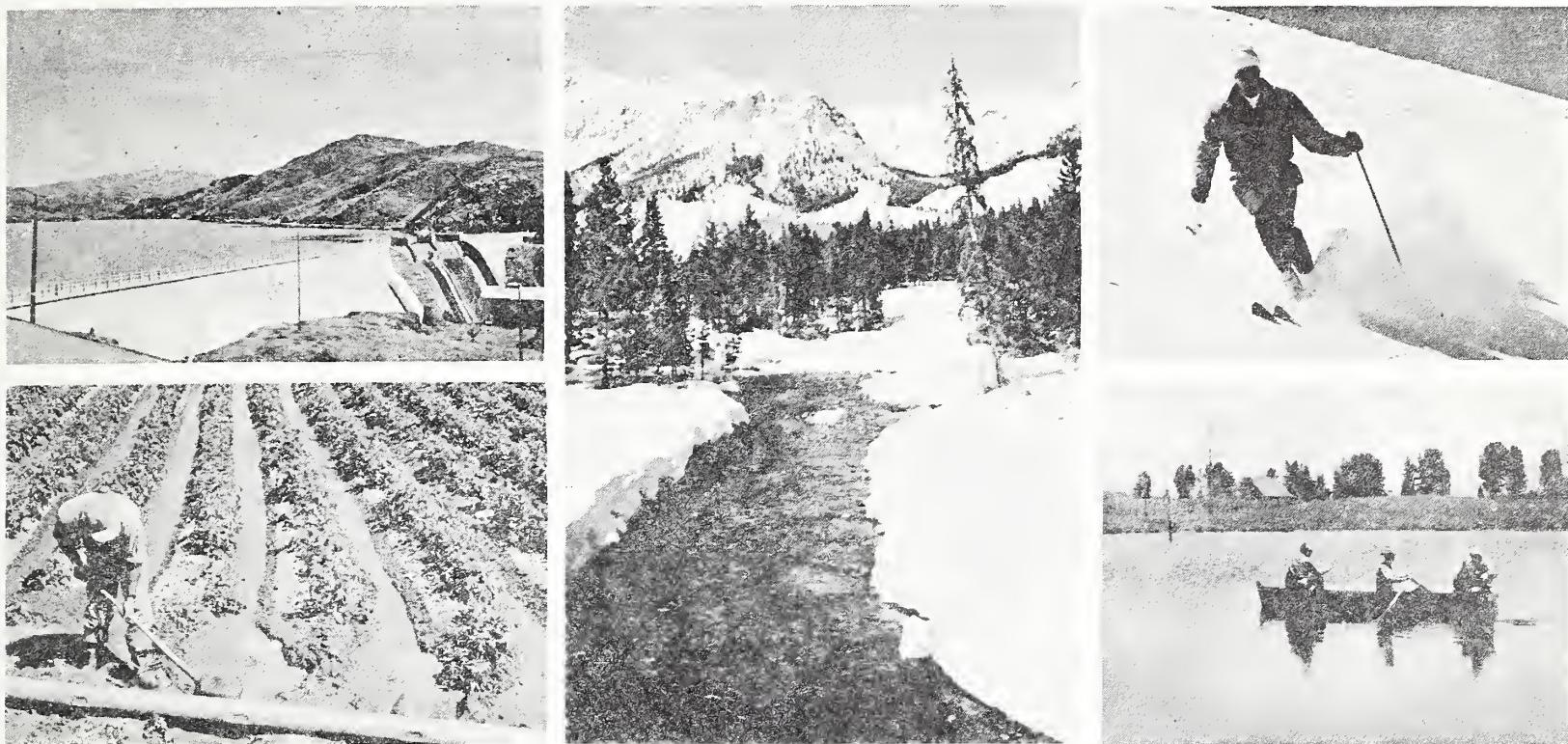
and
Soil Conservation Districts
NOAA-National Weather Service
Idaho Power Company
FMC Corporation
Washington Water Power Company

Report prepared by
Snow Survey Staff

Gerald A. Beard
Snow Survey Supervisor
Soil Conservation Service
Boise, Idaho

Soil Conservation Service
Snow Survey Office
Rm. 345, 304 No. 8th Street
Boise, Idaho 83702

WATER SUPPLY OUTLOOK for IDAHO



GENERAL STATEMENT FOR APRIL 1, 1984

In general, snow surveys taken near April 1, 1984 indicate that snowpack conditions on most basins have improved slightly or remained unchanged since the first of March. The snowpack in Northern Idaho improved on the Clearwater drainage but remains below to well below normal, ranging from a low of 66 percent of average on the St. Joe River drainage to a high of 89 percent of average on the Selway River. Central and eastern Idaho snowpack conditions improved slightly during March and currently range from 84 percent of normal on the Henrys Fork to 112 percent of normal on the Boise River. Conditions in the extreme southern portion of the state from the Owyhee mountains eastward to the Portneuf and Malad basins remain well above normal, ranging from 132 percent of average on the Oakley Reservoir drainage to 237 percent of average on the Owyhee basin.

Reservoir carryover storages on most reservoirs remain near to well above normal. Soil moisture conditions are above to well above average throughout the State.

Water supplies for the 1984 season are expected to be good to excellent for the Snake River basin and its tributaries above the Salmon but will be below normal for the Clearwater and Spokane drainages. Forecasts of April through September runoff range from a high of 240 percent of average for Lake Owyhee net inflow in southeastern Oregon to a low of 68 percent on the North Fork Clearwater drainage in northern Idaho.

Low elevation snowpack conditions on the south side of the Snake River drainages are near record indicating that high flows may occur earlier

than normal. A potential for high volume flows exists on several southern Idaho streams. Areas of concern are the Portneuf, Malad, Bruneau, Owyhee and Weiser River drainages and Camas Creek near Fairfield. April and May weather conditions will dictate how the snowmelt progresses. Individuals in these areas should monitor streamflow conditions in their areas and be prepared for high volume runoff.

The storm track in March moved further north resulting in northern Idaho, for the first time this year, receiving above normal precipitation. Percentages were as high as 110 percent above normal for the month. Southwestern Idaho was near to a little above normal while the southeastern portion of the state was some 50 percent below average.

Temperatures for the month were warmer than normal for northern Idaho. For southern Idaho temperatures were below normal. This was due to an unusually cold outbreak at the beginning of the month. Temperature extremes for March ranged from 68° F. at Emmett and Grandview to 15° below zero at Bear Lake.

VALLEY PRECIPITATION 1/

Division Averages and Departures in Inches

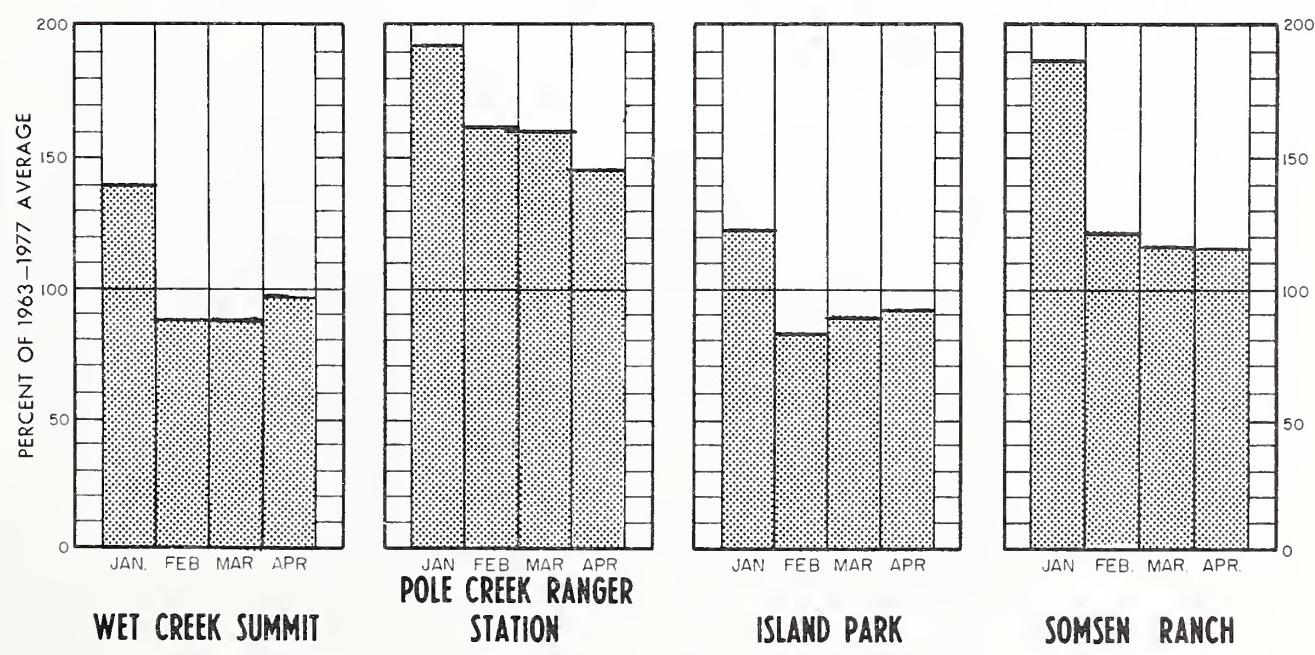
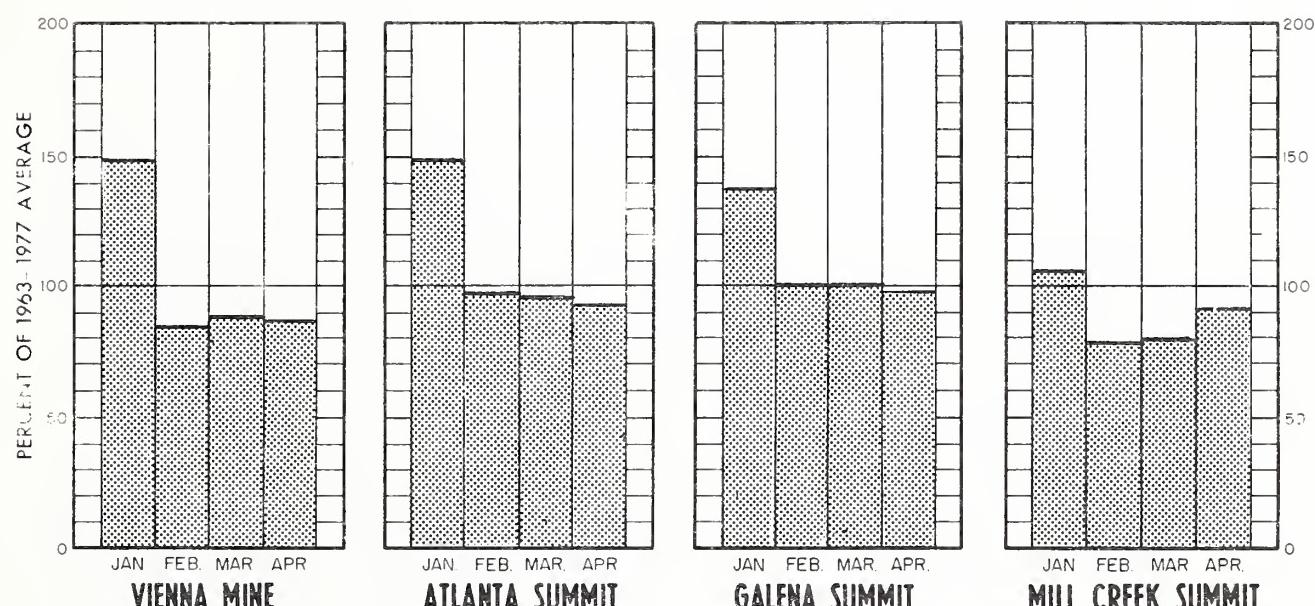
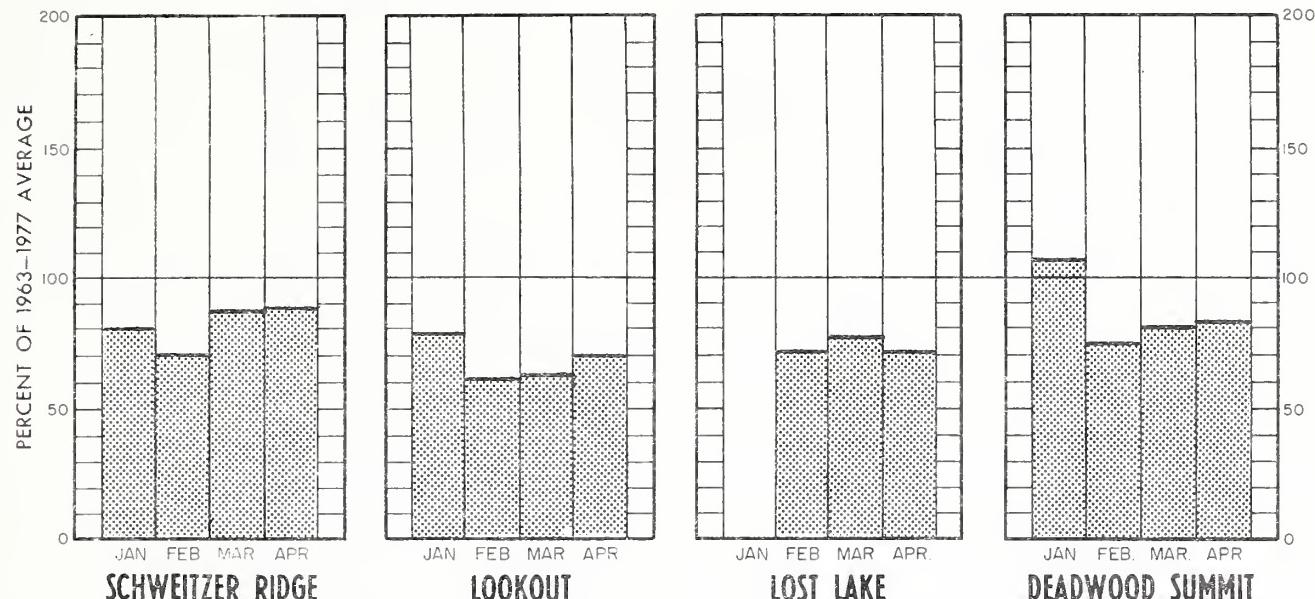
DRAINAGE DIVISIONS	Winter March 1984		Fall - Winter Oct. 1983 - March 1984	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	1.66	- 0.08	10.95	- 2.44
Flathead	1.45	- 0.08	8.00	- 2.73
Clark Fork	1.40	+ 0.18	6.61	- 1.39
Pend Oreille-Spokane	2.94	+ 0.41	17.31	- 0.24
Upper Snake	1.64	+ 0.12	11.81	+ 1.70
Snake River Plain	0.75	- 0.03	7.67	+ 2.59
Salmon-Payette-Boise	2.10	+ 1.37	14.97	+ 3.18
Clearwater	4.32	+ 1.36	18.12	+ 0.24
Owyhee-Malheur	1.78	+ 0.93	8.99	+ 3.32

1/ Preliminary analysis and data by the National Weather Service and Meteorological Service of Canada.

2/ Departure from 15-year (1963-1977) drainage division average.

**SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses**

As Compared To 1961 – 1980 20 Year Average



COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	1961-80 AVERAGE
<u>UPPER COLUMBIA RIVER BASIN</u>			
Kootenai River	56	82	61
Pend Oreille River	166	91	75
Clark Fork River	107	92	73
Clark Fork above Blackfoot, Mt	43	94	80
Blackfoot River Mt	23	92	67
Flathead River	59	89	77
North Fork Flathead	13	75	68
Middle Fork Flathead	13	81	64
South Fork Flathead	13	101	88
Bitterroot River	22	96	80
Priest River	4 - 5	67	79
Spokane River	19 - 21	85	68
Coeur d'Alene River	8 - 10	84	71
St. Joe River	7	81	66
<u>LOWER SNAKE RIVER BASIN</u>			
Clearwater River	25 - 26	101	77
North Fork Clearwater	13 - 14	95	72
Lochsa	5	100	77
Selway	7	116	89
Salmon River	29 - 32	83	95
Salmon Ab Salmon	11 - 12	80	98
Lemhi River	8	97	100
<u>MIDDLE SNAKE RIVER BASIN - Northside</u>			
Little Lost River	3 - 4	67	98
Big Lost River	9	61	91
Fish Creek	3	62	97
Little Wood River	4	60	95
Big Wood River	13 - 16	72	105
Big Wood River Ab. Magic Reservoir	8 - 10	68	94
Camas Creek	5 - 6	81	139
Canyon Creek	3	90	150
Boise River	18 - 21	83	112
Middle Fork Boise	8 - 10	81	98
South Fork Boise	10 - 11	79	110
Payette River	15 - 17	79	97
South Fork Payette	6 - 7	76	101
North Fork Payette	9 - 10	81	94
Weiser River	9 - 12	82	104
Mann Creek	4 - 5	86	121
<u>MIDDLE SNAKE RIVER BASIN - Southside</u>			
Raft River	7 - 9	103	149
Goose-Trapper Creeks	3 - 5	101	132
Salmon Falls Creek	11 - 12	141	167
Bruneau River	8	131	163
Owyhee River above Owyhee Lake	23	138	237
Jordan Creek	2	110	180
<u>UPPER SNAKE RIVER BASIN</u>			
Upper Snake above Palisades Reservoir	17	103	92
Snake above Jackson, Wy	9	85	80
Gros Ventre, Wy	3	90	85
Greys River, Wy	2	110	90
Salt River, Wy	4	140	108
Camas-Beaver Creeks	3 - 4	58	95
Henrys Fork River	14	73	84
Teton River	9	96	103
Willow Creek	9	109	129
Blackfoot River	4 - 8	129	124
Portneuf River	4 - 11	126	129
<u>GREAT BASIN</u>			
Bear River	7	126	111
Montpelier Creek	6	118	106
Mink Creek	8	137	134
Cub River	4	168	177
Malad River	6 - 7	108	146

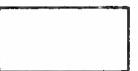
SNOW WATER DEPTHS
As percent of 1961-81 20 year average

APRIL 1, 1984

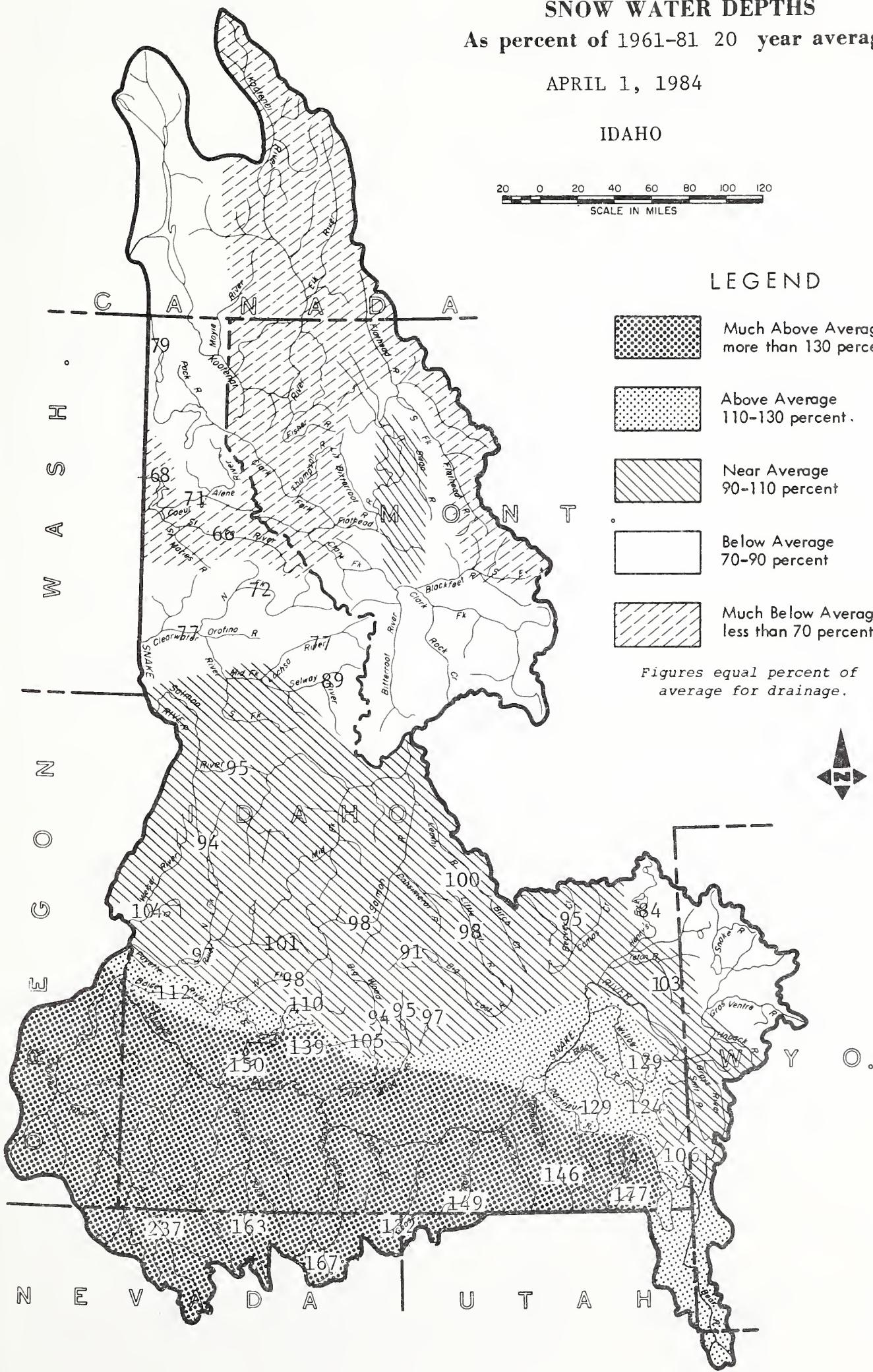
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20 0 20 40 60 80 100 120
SCALE IN MILES

LEGEND

-  Much Above Average
more than 130 percent
-  Above Average
110-130 percent.
-  Near Average
90-110 percent
-  Below Average
70-90 percent
-  Much Below Average
less than 70 percent

*Figures equal percent of
average for drainage.*



RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1961-80 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	2074.0	2699.0	2054.0
Flathead	1791.0	682.4	743.2	762.0
Pend Oreille	1155.1	514.8	533.7	392.5
Noxon	334.6	322.3	322.2	197.6
<u>Spokane</u>				
Coeur d'Alene	225.1	194.4	163.3	168.2
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	624.4	493.4	502.4	545.3
Palisades	1200.0	960.7	1038.5	778.9
American Falls	1673.0	1485.2	1605.8	1429.5
Island Park	127.0	116.3	115.5	118.8
Grassy Lake	15.2	14.2	12.7	10.6
Brownlee	980.2	602.6	452.3	440.3
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	50.5	36.0	33.2
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	92.6	62.1	58.3
<u>Big Lost</u>				
Mackay	44.2	36.3	31.4	32.3
<u>Big Wood</u>				
Magic	191.5	150.7	114.7	113.7
<u>Little Wood</u>				
Little Wood	30.0	23.2	2.8	18.2
<u>Fish Creek</u>				
Carey Valley	14.4	10.7	10.3	--
<u>Boise</u>				
Anderson Ranch	423.2	249.8	236.0	231.8
Arrowrock	286.6	133.6	130.5	239.1
Lucky Peak	278.2	176.6	219.1	114.1
Lake Lowell (Deer Flat)	169.0	131.4	130.9	139.2
<u>Owyhee</u>				
Owyhee	715.0	668.9	660.2	476.9
<u>Payette</u>				
Cascade	653.2	434.7	405.7	301.6
Deadwood	161.9	111.6	113.2	85.4
<u>Weiser</u>				
Mann Creek	11.1	7.7	6.4	--
<u>Clearwater</u>				
Dworshak	2016.0	1187.4	999.2	--
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	1056.3	1101.5	990.0

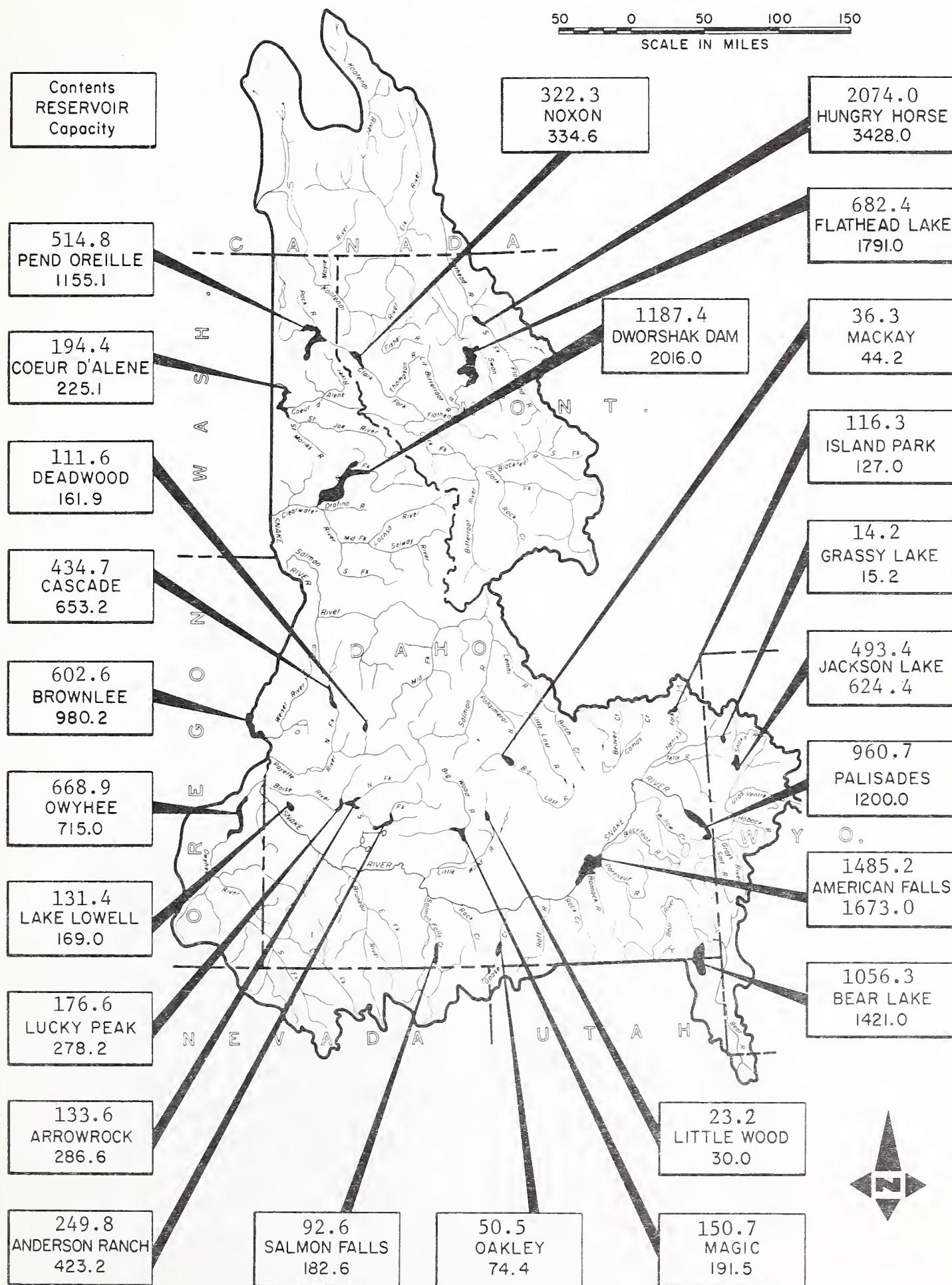
*Period of Record

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

APRIL 1, 1984

50 0 50 100 150
SCALE IN MILES



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	Last Year	Average ^d	

UPPER COLUMBIA BASINKOOTENAI RIVER

Leonia	(at)	6260	73	Apr-Sep	--	8602
		5460	73	Apr-Jul	--	7498
		4417	73	Apr-Jun	--	6051

PEND OREILLE RIVERClark Fork River

Whitehorse Rapids	(at)	9320	69	Apr-Sep	--	13575
		8480	69	Apr-Jul	--	12351
		7293	69	Apr-Jun	--	10570

Pend Oreille Lake Inflow

	10600	70	Apr-Sep	--	15150
--	-------	----	---------	----	-------

Priest RiverPriest River 1/

	(at)	726	82	Apr-Sep	--	885
		683	82	Apr-Jul	--	832

SPOKANE RIVERPost Falls 2/

	(at)	2000	70	Apr-Sep	--	2860
		1920	70	Apr-Jul	--	2756

St. Joe RiverCalder

	(at)	900	70	Apr-Sep	--	1294
		852	70	Apr-Jul	--	1225

SNAKE RIVER BASINSNAKE RIVER - MAIN STEM

Moran 3/	(at)	730	83	Apr-Sep	--	880
Palisades Inflow 3/		3190	84	Apr-Sep	--	3793
Heise 4/	(nr)	3330	82	Apr-Sep	--	4066
		2840	82	Apr-Jul	--	3465

Blackfoot 5/

	(nr)	4615	85	Apr-Sep	--	5430
		3780	85	Apr-Jul	--	4429

Henrys ForkAshton 6/

	(nr)	640	90	Apr-Sep	--	714
		475	90	Apr-Jul	--	529

Rexburg 7/

	(nr)	1308	89	Apr-Sep	--	1475
		1028	89	Apr-Jul	--	1153

Falls RiverSquirrel

	(nr)	316	86	Apr-Jul	--	366
--	------	-----	----	---------	----	-----

TetonSouth Leigh Creek

	(ab)	191	98	Apr-Sep	--	194
		143	99	Apr-Jul	--	145

St. Anthony

	(nr)	401	86	Apr-Sep	--	465
		323	86	Apr-Jul	--	375

PortneufTopaz

	(at)	151	148	Mar-Sep	--	102
		122	148	Mar-Jul	--	82.2

Oakley Reservoir Inflow

Inflow		53.5	177	Apr-Sep	--	30.2
		48.4	178	Apr-Jul	--	27.2

(c) Assuming normal meteorological conditions.

+1961-1980 period

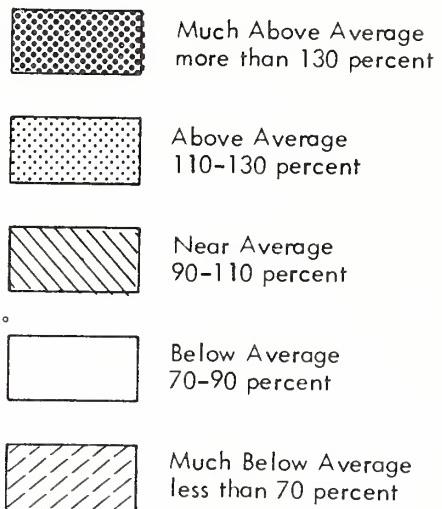
PROSPECTIVE STREAMFLOW
Based on Snow Surveys made on approximately
APRIL 1, 1984

IDAHO

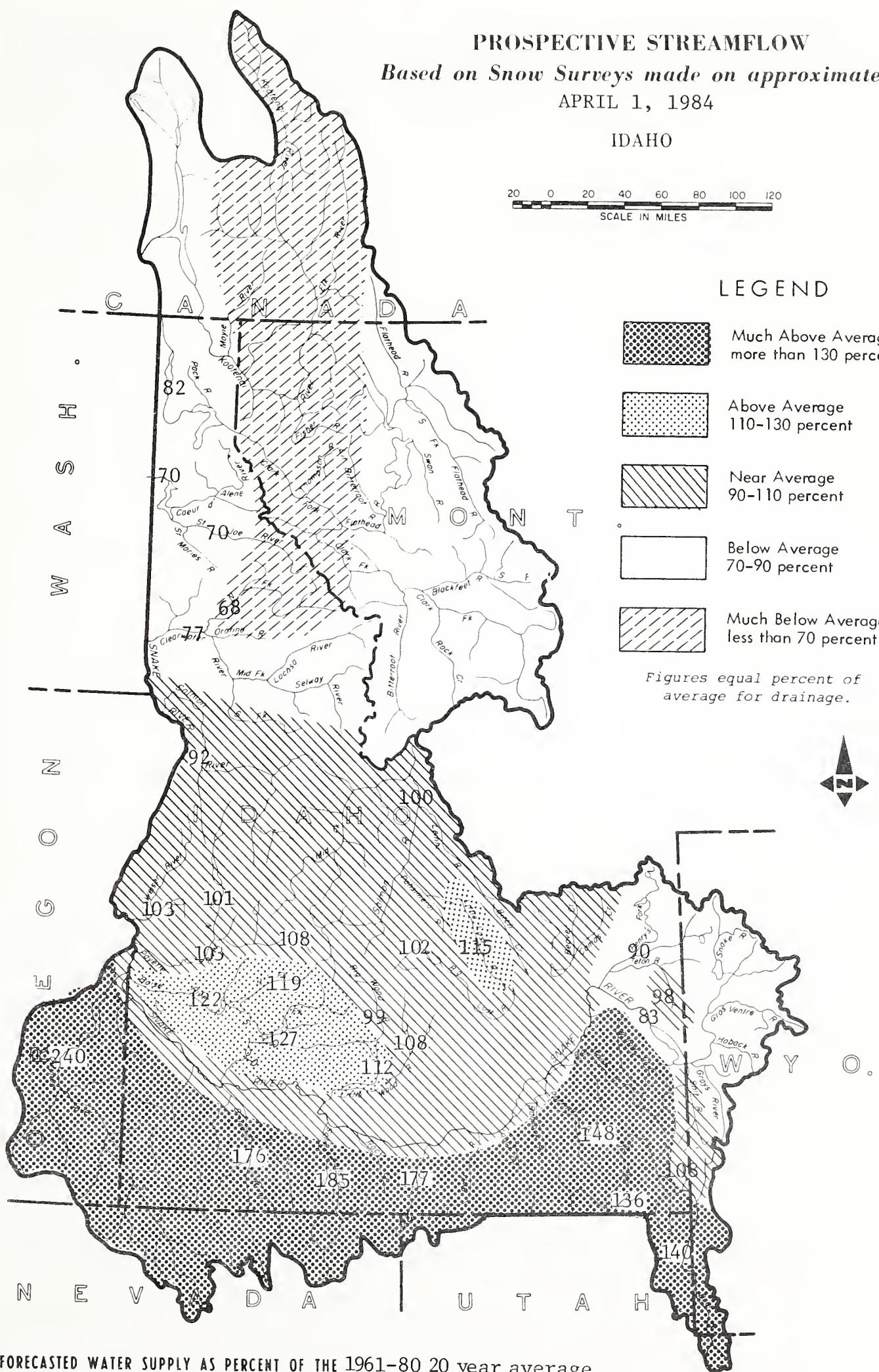
20 0 20 40 60 80 100 120

 SCALE IN MILES

LEGEND



Figures equal percent of average for drainage.



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	Average ^f
	Thousand Acre Feet	Percent of Average		Last Year	Average
<u>Salmon Falls Creek</u>					
San Jacinto	(nr)				
		174	185	Mar-Sep	--
		165	185	Mar-Jul	--
		156	186	Mar-Jun	--
					94
					89.3
					84.4
<u>Brunneau River</u>					
Hot Springs	(nr)				
		426	175	Mar-Sep	--
		408	176	Mar-Jul	--
					243
					232
<u>Little Lost River</u>					
Howe	(nr)				
		48.5	115	Apr-Sep	--
		37.6	115	Apr-Jul	--
					42.2
					32.6
Wet Creek	(bl)				
		43	111	Apr-Sep	--
		35	111	Apr-Jul	--
		28	112	Apr-Jun	--
					38.8
					31.4
					25.0
<u>Big Lost River</u>					
Howell Ranch	(at)				
		215	102	Apr-Sep	--
		190	102	Apr-Jul	--
		148	103	Apr-Jun	--
					211
					186
					144
Mackay <u>8/</u>	(nr)				
		188	102	Apr-Sep	--
<u>Big Wood River</u>					
Bellevue	(nr)				
		191	99	Apr-Sep	--
		177	98	Apr-Jul	--
					193
					180
<u>Magic Reservoir</u>					
Inflow <u>9/</u>					
		330	112	Apr-Sep	--
		315	112	Apr-Jul	--
					295
					280
<u>Little Wood River</u>					
Carey <u>10/</u>	(nr)				
		109	108	Apr-Sep	--
		101	108	Apr-Jul	--
		89	108	Apr-Jun	--
					101
					93.1
					82.6
<u>Boise River</u>					
Twin Springs	(nr)				
		838	119	Apr-Sep	--
		773	119	Apr-Jul	--
					705
					650
Boise <u>11/</u>	(nr)				
		1917	122	Apr-Sep	--
		1774	122	Apr-Jul	--
		1560	122	Apr-Jun	--
					1571
					1454
					1279
<u>South Fork</u>					
Anderson Dam <u>12/</u>	(at)				
		752	127	Apr-Sep	--
		700	127	Apr-Jul	--
					590
					551
<u>Owyhee River</u>					
Gold Cr., Nv <u>13/</u>	(nr)				
		63	269	Apr-Jul	--
Owyhee, Nv <u>13/</u>	(nr)				
		210	246	Apr-Jul	--
Lake Owyhee					
net inflow <u>14/</u>					
Rome	(at)				
		902	240	Apr-Sep	--
		838	240	Apr-Jul	--
		909	242	Apr-Jul	--
					376
					349
					349
					376
<u>Payette River</u>					
Horseshoe Bend <u>15/</u>	(nr)				
		1860	103	Apr-Sep	--
		1720	103	Apr-Jul	--
					1805
					1668
<u>North Fork</u>					
Cascade <u>16/</u>	(at)				
		559	101	Apr-Sep	--
		522	101	Apr-Jul	--
					553
					518
Banks <u>16/</u>	(nr)				
		700	98	Apr-Sep	--
		659	98	Apr-Jul	--
					712
					671

(c) Assuming normal meteorological conditions.

+1961-1980 period

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD		
	FORECAST C		FORECAST PERIOD	THOUSAND ACRE FEET		
	Thousand Acre Feet	Percent of Average		Last Year	Average +	
<u>South Fork</u> Lowman	(at)	537 477	108 108	Apr-Sep Apr-Jul	-- --	497.2 441
<u>Deadwood Reservoir</u> Inflow		140	100	Apr-Jul	--	140
<u>Weiser River</u> Weiser	(nr)	437 409	102 103	Apr-Sep Apr-Jul	-- --	427 399
<u>Salmon River</u> Whitebird	(at)	6340 5730	92 92	Apr-Sep Apr-Jul	-- --	6876 6211
Salmon	(nr)	1050 900	100 100	Apr-Sep Apr-Jul	-- --	1053 899
<u>Clearwater River</u> Orofino	(at)	4000 3770	77 77	Apr-Sep Apr-Jul	-- --	5308 5029
Spalding	(at)	6330 5940	75 74	Apr-Sep Apr-Jul	-- --	8460 8000
<u>North Fork Clearwater</u> Dworshak Reservoir Inflow		2020 1900	68 68	Apr-Sep Apr-Jul	-- --	2985 2805
<u>GREAT BASIN</u>						
<u>BEAR RIVER</u> Harer	(at)	434	140	Apr-Sep	--	310
<u>Montpelier Creek</u> Montpeleir	(nr)	15.0	108	Apr-Sep	--	13.9
<u>Cub River</u> Preston	(nr)	70.5 63.6	136 136	Apr-Sep Apr-Jul	-- --	51.8 46.8

- 1/ Observed flow corrected for storage in Priest Lake.
 2/ Observed flow corrected for storage in Coeur d'Alene Lake.
 3/ Corrected for storage in Jackson Lake.
 4/ Corrected for storage in Jackson Lake and Palisades.
 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henrys Lake, Grassy Lake and diversions between Heise and Blackfoot.
 6/ Corrected for storage in Henrys Lake and Island Park Reservoir.
 7/ Corrected for storage in Henrys Lake and Island Park, Grassy Lake and diversions between Ashton and Rexburg.
 8/ Observed flow corrected for storage in Mackay Reservoir.
 9/ Combined flow Big Wood River nr. Bellevue and Camas Creek near Blaine.
 10/ Corrected for storage in Little Wood Reservoir.
 11/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
 12/ Corrected for storage in Anderson Ranch Reservoir.
 13/ Corrected for storage in Wildhorse Reservoir.
 14/ From Bureau of Reclamation records of inflow.
 15/ Corrected for storage in Cascade and Deadwood Reservoirs.
 16/ Corrected for storage in Cascade Reservoir.

Cooperative forecasts released by Soil Conservation Service and National Weather Service.

(c) Assuming normal meteorological conditions.

+1961-1980 period

SNOW

SNOW COURSE		Elevation	THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
NAME & DRAINAGE							Average
Above Burke	Coeur d'Alene	4100	3/30	37	14.2	15.4	24.0*
Above Gilmore	Lemhi	8240	4/2	34	8.8	11.5	10.1*
Above Roland	St. Joe	4350	3/31	65	24.8	29.8	34.3*
Afton Ranger Sta. (Wy)	Salt River	6240	3/30	12	4.0	1.1	1.4
Allen Ranch	Blackfoot	6470	3/27	41	15.2	10.5	--
Antelope Ridge	Owyhee	6180	4/3	33	13.4	7.5	5.7
Arizona (Wy)	Snake	6820	3/29	55	18.7	20.3	20.2
Aspen Grove	Willow	6500	3/29		14.6e	14.2	12.4*
Aspen Hall Pass	Lemhi	8200	4/2	50	12.4	11.7	10.4*
Aster Creek (Wy)	Snake	7750	3/29	68	22.0	29.4	31.8
Atlanta Summit	Boise	7600	3/30	90	33.5	45.6	35.5
Atlanta Townsite	Boise	5370	3/30	33	12.2	14.2	--
Austin Bros. Ranch	Blackfoot	6400	3/27	36	13.0	8.8	8.7
Bad Bear	Boise	4940	3/30	39	14.6	14.0	13.6
Badger Gulch	Trapper	6660	3/28	56	19.5	14.6	13.2
Banner Summit	Payette	7040	3/30	76	27.0	35.8	--
Base Camp (Wy)	Snake	7030	3/29	52	17.3	19.5	21.2
Battle Creek	Owyhee	5710	3/30	21	7.4	1.2	1.6*
Beagle Springs (Mt)	Beaverhead	8850	3/28	37	8.6	8.6	9.5
Bear Basin	Little Salmon	5350	3/28	69	22.4	25.8	--
Bear Canyon	Big Lost	7900	3/28	56	16.3	28.2	18.9
Bear Creek (Nv)	Jarbridge	8040	3/30	94	33.8	27.8	21.2
Bear Mountain	Clark Fork	5400	3/30	98	41.1	66.1	62.9*
Bear Saddle	Mann Creek	6180	3/31	79	32.2	37.5	--
Beaverdam Creek	Portneuf	6120	3/31	35	13.7	7.6	--
Below Roland	St. Joe	3920	3/31	23	7.4	--	15.8
Bennett Mountain	Canyon Creek	6560	3/31	65	23.2	25.2	17.7
Benton Meadow	Priest	2370	3/30	0	0.0	0.0	4.9
Benton Spring	Priest	4920	3/30	47	15.3	22.0	19.8
Big Bend (A) (Nv)	Owyhee	6700	3/27	47	15.5	13.7	10.6
Big Creek Summit	Salmon	6580	3/29	97	34.3	43.1	37.4
Big Springs	Henrys Fork	6400	3/28	56	17.8	23.2	21.9
Birch Creek	Willow	6800	3/29	39	13.6	9.3	11.4*
Black Bear (Mt)	Madison	7950	3/26	107	37.1	48.4	43.9
Black Canyon	Henrys Fork	7960	3/28	92	29.8	40.6	35.8*
Black Moose	Henrys Fork	8160	3/28	93	29.0	45.2	40.6*
Black Rock (Wy)	Snake	8900	3/29	63	20.1	21.5	22.4
Blind Bull (A) (Wy)	Greys	8650	3/30	55	19.8	22.3	28.7
Bloody Dick (Mt)	Beaverhead	7600	3/26	52	12.0	14.0	14.4
Blue Ledge Mine	Camas-Beaver	6900	3/29	55	16.0	31.0	17.5
Blue Ridge	Blackfoot	6780	3/28	72	26.7	24.3	18.9*
Bogus Basin	Payette	6340	3/30	82	31.7	40.0	24.3
Bogus Basin Road	Boise	5540	3/30	23	8.8	2.6	1.9
Bone	Willow	6200	3/29	27	8.9	7.0	6.9*
Borah (A)	Pahsimeroi	8250	4/2	28	8.1	8.4	5.7*
Bostetter Rgr. Sta.	Trapper	7500	3/28	86	31.8	21.8	20.0
Boulder Creek	Weiser	5440	3/29	66	23.6	27.8	24.0
Boy Scout Camp	Raft	7740	3/28	84	28.8	31.9	15.9
Breezy Saddle	Clearwater	5010	3/30	66	20.8	24.8	--
Brockman Station	Willow	6430	3/29	29	13.7	10.4	9.4*
Brundage Mountain	Little Salmon	7560	3/31	118	44.2	58.3	48.6*
Bruno Creek	Salmon	7920	4/2	51	16.5	19.4	--
Bryan Flat (Wy)	Hoback	6420	3/27	30	9.2	8.6	9.4
Buck Meadows	Selway	5650	3/28	97	26.6	20.0	28.9*
Bull Basin (A)	Owyhee	5460	3/30	18	6.1	0.1	0.4*
Bunchgrass Meadow	Pend Oreille	5000	3/30	78	28.5	27.1	30.6
Camas Creek Divide	Big Wood	5710	3/31	43	17.5	19.5	9.3*
Camp Creek	Beaver	6580	3/28	39	9.2	17.8	11.5
Cayuse Airstrip	Clearwater	3500	3/30	18	5.1	2.0	9.1
CCC Camp (Wy)	Salt	7000	3/29	44	14.0	10.0	13.2
Cedar Creek	Cedar	6820	3/30	57	20.8	8.4	10.1
Chilco Ridge	Hayden	3650	3/28	0	0.0	0.0	5.8*
Chimney Creek	Big Wood	6400	3/31	43	17.0	24.4	--
Christensen Ranch	Mink	5560	3/30		14.6e	7.4	7.8
Clear Creek Meadows	Raft	9420	3/28	84	27.4	35.8	22.1*
Cliff Canyon	Malad	7200	3/29	37	12.3	24.3	9.7*
Cold Springs	Portneuf	7000	3/31	73	27.3	23.4	--
Conie Ridge	Hayden	3900	3/28	10	3.1	0.0	7.0*
Coolwater Mountain	Lochsa	6030	3/28	123	35.7	32.7	32.7
Copes Camp	Lemhi	7520	4/2	36	9.1	8.1	8.6*
Copper Basin	Big Lost	7640	3/28	37	9.6	17.9	10.2
Copper Ridge	Coeur d'Alene	4820	3/29	68	26.4	24.7	28.2
Corner Creek	Hayden	3150	3/28	14	5.2	0.0	6.3*

(A) Aerial observation, water content estimated.

(b) 1961-1980, 20 year average.

(e) Snow course data estimated from automated Snotel readings.

(*) Estimated 1961-1980 20 year average.

SNOW

SNOW COURSE NAME & DRAINAGE				THIS YEAR			PAST RECORD	
				Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
Cottonwood Lake	(Wy)	Greys	7600	3/30	56	17.9	16.7	18.4
Couch Summit		Boise	6840	3/13	63	21.8	29.4	18.5
Coulter Creek	(Wy)	Snake	7020	3/29	48	16.6	18.6	23.5
Cozy Cove		Deadwood	5380	3/30	41	15.0	19.2	16.0
Crab Creek		Camas-Beaver	6860	3/29	55	15.0	28.8	--
Crater Meadows		Clearwater	5960	3/30	110	35.0	33.4	45.2*
Crawford Ranger Sta.		Payette	4860	3/29	16	5.5	5.0	6.8
Crooked Fork		Lochsa	3610	3/29	21	7.3	6.6	13.6*
Cub River Ranger Sta.		Cub	5450	3/29	38	15.2	5.3	7.1
Dad Creek Lake	(Mt)	Beaverhead	8400	3/28	58	14.9	13.6	15.4
Daniels Creek		Malad	6270	3/29	25	8.7	7.2	4.7*
Darby Canyon	(Wy)	Teton	8250	3/29	78	26.4	25.1	24.1*
Darkhorse Lake	(Mt)	Big Hole	8600	3/27	85	25.7	24.6	28.9
Deadline		Salmon Falls	7400	3/30	76	32.8	28.5	22.3*
Deadline South		Salmon Falls	7450	3/30	97	38.6	31.1	23.9*
Deadman Gulch		Boise	5600	3/29	62	22.6	22.0	16.4*
Deadwood Airstrip		Deadwood	5360	4/1		16.0e	19.8	15.2
Deadwood Summit		Deadwood	6860	3/30	101	38.0	58.3	46.3
Dempsey Creek		Portneuf	6100	3/31		14.5e	10.4	12.9
Dollarhide Summit		Big Wood	8420	3/28	72	25.0	37.5	24.7
Double Springs Pass		Pahsimeroi	8380	4/2	37	9.8	14.1	10.4*
Dry Basin		Mink	7820	3/29	107	40.6	30.7	30.7*
Dry Creek Flat		Malad	6360	3/29	38	14.9	6.2	5.2
Dry Fork		Big Lost	7220	3/28	42	11.6	21.4	16.4*
East Creek		Portneuf	7000	3/31	48	17.5	13.2	--
East Rim Divide	(Wy)	Hoback	7930	3/28	35	8.8	11.2	14.1
East Twin		Palouse	4130	3/27	18	5.7	0.0	9.2
Elk Butte		Clearwater	5550	3/30	87	28.9	27.2	37.2*
Emigrant Summit		Bear	7390	3/30	85	32.8	26.1	25.7
Emigration Canyon		Bear	6500	3/30	39	14.1	9.8	11.0
Fawn Creek (A)	(Nv)	Owyhee	7000	3/27	76	28.1	23.8	11.4
Fish Lake Airstrip		Lochsa	5650	3/30	91	28.0	29.0	39.9
Fishpole Lake		Big Lost	9300	3/28	67	22.0	40.5	20.8*
Forty-nine Meadows		Clearwater	4830	3/30	62	20.0	24.4	31.2
Four Mile Meadows	(Wy)	Snake	7860	3/29	40	11.1	10.8	13.8
Fourth of July Summit		Coeur d'Alene	3200	3/29	14	5.0	0.0	7.9
Fox Creek	(Nv)	Jarbridge	6750	3/30	51	17.5	13.1	10.0
Franklin Basin		Cub	8040	3/29	82	31.3	24.6	14.4
Freds Mountain	(Wy)	Teton	8150	3/28		26.4e	28.7	26.0*
Fry Canyon	(Nv)	Owyhee	6700	3/27	44	15.1	13.4	6.1
Galena		Big Wood	7440	3/29	52	16.2	26.2	19.0
Galena Snotel		Big Wood	7470	3/29	60	19.5	28.2	--
Galena Summit		Big Wood	8780	3/29	72	23.6	31.4	24.2
Garfield Ranger Sta.		Little Wood	6560	3/28	35	11.0	16.1	10.0
George Creek	(Ut)	Raft	8840	3/28	83	28.8	35.2	--
George Peak	(Ut)	Raft	9000	3/28	94	36.0	39.5	28.3*
Gibbons Pass	(Mt)	Bitterroot	7100	3/26	73	22.3	24.8	24.2
Giveout		Montpelier	6860	3/30	45	14.6	11.9	13.4*
Giveout Snotel		Montpelier	6930	3/30	37	11.4	9.4	--
Glade Creek	(Wy)	Snake	7040	3/29	62	21.0	23.8	23.9
Goat Creek		Salmon Falls	8880	4/30	89	31.1	22.0	18.8*
Goat Lake		Clearwater	6500	3/30	110	33.3	35.2	47.7*
Gold Creek	(Nv)	Owyhee	6600	3/27	32	11.1	7.7	4.8
Gold Stone	(Mt)	Beaverhead	8100	3/26	63	16.6	18.0	18.2
Graham Guard Sta.		Boise	5690	3/30	44	15.7	18.3	15.7*
Graham Ranch		Big Wood	6270	3/29	50	16.5	23.4	14.0
Granite Peak		St. Joe	6000	3/30	93	27.5	37.8	44.7
Grassy Lake	(Wy)	Henry's Fork	7265	3/29	92	33.9	35.1	36.6
Greys Boundary	(Wy)	Greys	5720	3/30	39	13.6	9.6	12.0
Gros Ventre Summit	(Wy)	Gros Ventre	8750	3/30	39	10.6	12.0	12.5
Grover Park Divide	(Wy)	Salt	7000	3/30	46	14.8	9.6	13.2
Hall Creek		Lemhi	7560	4/2		6.9e	7.1	5.7*
Heart Lake Trail	(Mt)	Clark Fork	4800	4/2	40	15.8	15.4	23.0
Hemlock Butte		Clearwater	5810	3/28	128	39.6	38.2	49.6
Hilts Creek		Little Lost	8000	3/28	37	9.7	17.0	--
Hoodoo Basin	(Mt)	Clark Fork	6000	4/2	101	39.3	46.2	52.7
Hoodoo Creek	(Mt)	Clark Fork	5900	4/2	94	36.2	41.4	49.2
Horseshoe Basin		Bear	8000	3/29		35.2e	29.4	28.7*
Howell Canyon		Marsh Creek	7980	3/28	97	40.2	36.6	25.9*
Huckleberry Divide	(Wy)	Snake	7300	3/29	60	18.5	21.8	22.5
Humboldt Gulch		Coeur d'Alene	4250	3/30	25	9.0	11.6	--
Hummingbird Springs	(Nv)	Jarbridge	8870	3/30	102	36.0	28.5	24.0*
Hyndman Creek		Big Wood	7440	3/28	44	12.4	21.2	--
Idaho City Townsite		Boise	4000	3/30	5	1.6	0.0	--

(A) Aerial observation, water content estimated.

(b) 1961-1980, 20 year average.

(e) Snow course data estimated from automated Snotel readings.

(*) Estimated 1961-1980 20 year average.

SNOW

SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
NAME & DRAINAGE	Elevation					Average
Indian Grove	Raft	7560	3/28	62	21.0	20.0
Indian Meadows	Teton	8240	3/28	109	40.7	45.5
Iron Bog	Big Lost	7650	3/28	30	8.6	20.8
Iron Mine Creek	Fish Creek	6300	3/28	42	11.7	19.3
Irving Creek	Medicine Lodge	7035	3/26	28	6.1	10.4
Island Park	Henry's Fork	6290	3/28	50	16.0	20.7
Jackpine Creek	(Wy) Teton	7350	3/29	70	24.5	26.1
Jackson Peak		7070	3/30	82	29.3	40.5
Johnson Creek	Blackfoot	6730	3/27	49	15.9	11.3
Kellogg Peak	Coeur d'Alene	5560	3/31	62	21.8	30.0
Kilgore	Camas Creek	6320	3/29	40	13.7	15.2
Kit Carson Pasture	Selway	4950	3/28	28	9.0	4.7
Lake Fork	Payette	5290	3/31	54	17.7	16.9
Lakeview Canyon	(Mt) Beaverhead	6930	3/30	36	8.6	20.2
Lakeview Ridge		7400	3/30	34	8.1	19.2
Langford Flat Creek	Salmon Falls	5980	3/30	34	13.4	4.4
Latham Springs	Henry's Fork	7630	3/28	90	25.5	36.4
Laurel Draw	(Nv) Owyhee	6700	3/27	56	19.6	13.7
Lava Creek	Willow	7350	3/29	57	20.5	19.3
Leadbelt	Big Lost	6700	3/28	35	10.7	14.8
Leatherman Pass	(A) Pahsimeroi	9860	4/2	72	26.1	30.2
Lemhi Pass		7480	3/29	42	9.2	7.8
Lemhi Ridge	(Mt) Beaverhead	8100	3/29	48	11.0	9.3
Lewis Lake Divide	(Wy) Snake	7850	3/29	95	33.3	43.8
Liberty Spring		8600	4/1		50.6e	40.8
Little Beaver	Montpelier	6970	3/30	51	18.3	14.9
Little Camas Flat	Boise	4940	3/31	15	5.3	6.2
Logger Springs	Raft	8120	3/28	88	29.1	24.8
Lolo Pass	Lochsa	5240	3/28	59	20.8	22.0
Lookout	Coeur d'Alene	5140	3/30	69	25.4	33.0
Lost Horse	(Mt) Bitterroot	5940	3/29	79	27.2	28.8
Lost Lake	Clearwater	6110	3/30	125	41.2	49.8
Lost-Wood Divide	Big Lost	7900	3/28	63	19.9	31.2
Louse Canyon	(Or) Owyhee	6440	3/30	54	20.0	11.0
Lower Elkhorn	Portneuf	6960	3/29	47	17.3	18.4
Lower Home Canyon	Montpelier	7640	3/29	46	15.2	12.2
Lower Jack Creek	(Nv) Owyhee	6800	3/27	42	16.1	7.0
Lower Pebble	Portneuf	5780	3/31	44	15.3	13.1
Lower Sands Creek	Coeur d'Alene	3120	3/29	45	16.4	16.9
Lucky Dog	Henry's Fork	6860	3/28	72	23.4	31.2
Madison Plateau	(Mt) Madison	7750	3/26	66	20.0	27.3
Magic Mountain	Rock Creek	6880	3/30	79	33.2	23.1
Mann Creek	Weiser	6080	3/31	81	31.0	35.4
Mascot Mine	Big Wood	7780	3/28	45	13.0	20.6
McRenolds Reservoir	Teton	6720	3/29	64	21.0	20.5*
Meadow Lake	Lemhi	9150	4/2	59	18.0	21.8
Mill Creek Summit	Salmon	8800	4/2	64	21.1	26.5
Mink Creek	Portneuf	6410	3/29	79	30.0	22.6
Montpelier Creek	Montpelier	6540	4/1		8.7e	7.6
Moonshine	Little Lost	7440	3/28	40	10.7	15.0
Moores Creek Summit	Boise	6100	3/30	87	35.2	42.4
Moose Creek	N.F. Salmon	6200	3/30	62	19.2	18.4
Moran	(Wy) Snake	6750	3/29	36	11.6	10.8
Morgan Creek	Salmon	7600	4/2	47	14.2	15.8
Morse Creek Sawmill	Salmon	7120	4/2	39	11.3	11.2
Moscow Mountain	Palouse	4410	3/27	44	14.8	15.9
Mosquito Ridge	Coeur d'Alene	5200	3/31	78	28.2	42.6
Mount Baldy	Big Wood	8920	3/29	71	21.2	35.0
Mountain Meadows	Selway	6360	3/28	86	23.2	14.4
Mud Creek	Willow	7100	3/29	78	26.1	25.3
Mud Flat	Owyhee	5730	4/3	26	9.0	6.4
Muldoon	Little Wood	6320	3/28	17	5.6	11.1
Nez Perce Pass	(Mt) Bitterroot	6570	3/28	54	17.0	13.7
North Putnam	Ross Fork	7240	3/30	89e	31.5e	28.6
One Mile Summit	Raft	7330	3/28	34	12.0	7.9
Oxford Mountain	Malad	6800	3/29	43	16.4	9.0
Oxford Spring	Malad	6740	3/29	48	18.2	10.9
Packsaddle Spring	Teton	8200	3/29	89	30.8	34.2
Pebble Creek	Portneuf	6550	3/31	50	19.2	14.6
Perreau Meadows	Salmon	8500	3/29	60	16.6	15.5
Phillips Bench	(Wy) Teton	8200	3/27	80	25.8	29.6
Pierce Ranger Sta.	Clearwater	3080	3/29	20	6.5	0.0
Pine Creek Pass	Teton	6810	3/30	55	18.8	17.4

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(*) Estimated 1961-1980 20 year average.

SNOW

SNOW COURSE		Elevation	THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
Placer Creek	Weiser	5860	3/31	61	19.0	23.2	18.9
Poison Meadows (Wy)	Greys	8500	3/30	75	26.0	26.2	30.5
Pole Creek Rgr. Sta.	Jarbridge	8360	3/30	91	33.2	23.6	22.7*
Prairie	Boise	4800	3/29	17	5.7	0.0	2.8
Putnam	Portneuf	7220	3/31	63	24.0	--	--
Quinn Ridge (A) (Nv)	Owyhee	6300	3/30	15	5.0	0.1	0.9
Red Canyon	Owyhee	6650	3/30	24e	8.2e	10.3	6.0*
Redfish Lake Flat	Salmon	6560	3/27	38	11.8	15.9	12.0*
Road Creek	Boise	5380	3/30	31	10.0	8.4	8.2*
Robinson Creek Ridge	Weiser	6220	3/31	69	25.0	32.5	20.0*
Rock Flat Summit	Payette	5310	3/30	60	20.9	25.3	19.2
Rodeo Flat (Nv)	Owyhee	6800	3/27	49	17.7	14.3	4.9
Roland Summit	St. Joe	5120	3/31	74	25.2	39.0	39.4*
Saddle Mountain (Mt)	Bitterroot	7940	3/26	78	23.2	25.6	26.5
Sage Creek Saddle	Hayden	4080	3/28	44	14.8	15.8	19.4*
Salt River Summit (Wy)	Salt	7700	3/29	51	15.8	14.0	17.0
Savage Pass	Lochsa	6170	3/28	68	21.5	23.0	28.4
Sawmill Canyon	Little Lost	7000	3/28	31	7.9	10.0	7.9
Sawtell Mountain	Henry's Fork	8720	3/28	103	34.9	51.0	35.9*
Schwartz Lake	Lemhi	8540	4/2	48	13.1	13.9	13.4*
Schweitzer Basin	Pend Oreille	6090	3/29	102	38.6	60.1	--
Schweitzer Bowl	Pend Oreille	4800	3/29	64	22.8	40.1	30.2*
Schweitzed Ridge	Pend Oreille	6200	3/29	107	42.7	57.1	47.9*
Secesh Summit	Payette	6520	3/31	92	33.8	43.6	36.9*
Sedgwick Peak	Portneuf	7850	3/31	58	21.2	16.8	--
Seventy-Six Creek (Nv)	Jarbridge-Bruneau	7100	3/27	58	22.6	17.4	11.4
Shanghai Summit	Clearwater	4570	3/28	66	20.3	18.2	26.1
Sheep Mountain	Willow	6570	3/29	42	14.2	16.4	14.2*
Sherwin	St. Maries	3200	3/30	26	9.2	3.6	13.2*
Shoshone Basin	Salmon Falls	5810	3/30	33	12.8	4.4	4.4*
Silver City	Jordan-Owyhee	6400	4/1	78	25.0	21.5	15.4
Skitwish Ridge	Coeur d'Alene	5110	3/29	82	31.8	35.5	--
Slag-a-melt Lake (Mt)	Big Hole	8750	3/27	84	24.5	30.2	27.3
Slug Creek Divide	Blackfoot	7230	3/29	53	18.3	14.7	18.4
Smith Creek	Kootenai	4800	3/29	92	35.5	51.8	47.2
Snake River Station (Wy)	Snake	6920	3/29	53	17.6	20.2	21.9
Soldier Ranger Sta.	Big Wood	5740	3/31	38	14.8	18.5	10.3
Somsen Ranch	Willow Creek	6840	3/27	53	17.6	13.5	15.0
South Mountain	Jordan-Owyhee	6500	3/29	76	26.0	26.5	13.4
Squaw Flat	Weiser	6240	3/31	68	23.4	33.4	28.7*
Squaw Meadow	Payette	5900	3/31	87	34.9	44.7	37.2
State Line	Teton	6660	3/30	49	16.2	15.5	15.2
Stickney Mill	Big Lost	7430	3/28	37	10.3	16.5	10.1
Strawberry Creek	Mink	5820	3/30	46	19.0	9.2	10.3
Strawberry Mink Divide	Mink	6720	3/29	79	30.5	20.5	22.5
Sturgill Ridge	Weiser	6680	3/31	93	35.4	44.4	32.6*
Sublett	Raft	5950	3/28	55	17.0	14.5	10.9
Succor Creek	Jordan-Owyhee	6100	3/30	63	19.5	15.6	5.8*
Sulphur Peak	Blackfoot	7070	3/27	54	19.2	14.6	--
Sunset	Coeur d'Alene	5540	3/31	64	22.6	28.4	35.1*
Swede Peak	Little Wood	7640	3/28	53	18.1	29.7	17.7
Targhee Pass	Henry's Fork	6980	3/28		12.8e	20.1	16.4*
Taylor Canyon (Nv)	Owyhee	6200	3/27	27	10.3	10.4	2.7
Telfer Ranch	Fish Creek	5840	3/28	26	9.2	12.0	6.7
Teton Pass W.S. (Wy)	Teton	7740	3/27	84	29.2	29.0	27.9
Tex Creek	Willow	6650	3/29		11.0e	10.6	10.1*
Thorson Cabin	Weiser	5320	3/31	54	21.4	19.3	14.6*
Thumb Divide (Wy)	Snake	7980	3/29	50	14.8	18.0	22.0
Togwotee Pass (Wy)	Snake	9580	3/29	75	26.3	27.8	30.6
Toponce	Portneuf	6160	3/31	50	18.4	--	--
Trail Creek (Mt)	Beaverhead	7090	3/29	39	8.6	6.6	9.2
Trinity Mountain	Boise	7770	3/28	103	41.1	52.6	42.5
Tripod Summit	Payette	5260	3/30	52	20.5	22.4	19.0
Turpin Meadows (Wy)	Snake	6900	3/29	32	9.7	8.4	10.8
Twelve Mile Creek (Mt)	Bitterroot	5600	3/29	49	17.3	16.7	23.4
Twin Peaks	Salmon	9190	4/2	71	23.4	27.5	26.4*
Twin Lakes (Mt)	Bitterroot	6510	3/29	103	35.4	36.3	44.1
Twitchell Canyon	Blackfoot	6300	3/30	59	21.2	19.7	--
Upper Elkhorn	Portneuf	7140	3/29	64	21.9	25.5	19.5*
Upper Home Canyon	Montpelier	8560	3/29	73	26.9	23.5	25.4*
Upper Jack Creek (Nv)	Owyhee	7250	3/27	67	24.7	15.4	9.4
Valley View	Henry's Fork	6680	3/28	48	14.3	21.9	18.0
Vaught Ranch	Owyhee	5830	3/30	30	10.5	0.0	1.5*

(A) Aerial observation, water content estimated.

(b) 1961-1980, 20 year average.

(e) Snow course data estimated from automated Snotel readings.

(*) Estimated 1961-1980 20 year average.

SNOW

SNOW COURSE		Elevation	THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
NAME & DRAINAGE		Elevation					Average
Vi Pont	Goose	7670	3/28	69	26.0	19.8	15.8*
Vienna Mine	Salmon	8960	3/30	90	33.5	43.2	38.0*
Webber Creek	Medicine Lodge	6700	3/26	28	6.2	9.8	5.6*
West Branch	Weiser	5560	3/29	71	24.5	31.2	--
West Twin	Palouse	4220	3/27	14	4.2	0.0	8.1
Wet Creek Summit	Little Lost	7680	3/28	43	12.3	18.7	12.7
Whiskey Creek (Mt)	Madison	6800	3/26	56	16.7	24.2	21.9
Whiskey Flat	Montpelier	6960	4/1		10.3e	9.8	9.7*
White Elephant	Henry's Fork	7710	3/28	73	23.1	35.1	26.3*
Wildhorse Divide	Portneuf	6490	3/29	76	28.3	19.8	--
Willow Flat	Cub	6070	3/29	63	25.1	12.9	15.4
Wilson Creek (Nv)	Salmon Falls	7500	3/30	70	26.7	18.7	12.4
Wood Canyon Divide	Blackfoot	7450	3/27	63	22.1	17.0	--
Worm Creek	Cub	6620	3/29	73	29.5	17.5	20.3*
Youngs Ranch (A) (Wy)	Greys	6650	3/30	42	13.4	13.9	19.6

SNOTEL^{1/}

Data Site Name	Drainage	Date	Pillow Snow Water Equivalent (inches)	Precipitation Water Year (Accumulation) (inches)
Atlanta Summit	Boise	4/1	31.3	35.9
Banner Summit	Payette	4/1	26.5	32.3
Base Camp	Upper Snake	4/1	14.3	20.8
Bear Basin	Little Salmon	4/1	22.8	28.3
Bear Canyon	Big Lost	4/1	15.9	19.4
Bear Creek	Jarbridge	4/1	36.8	33.8
Bear Mountain	Clark Fork	4/1	38.1	52.9
Bear Saddle	Mann Creek	4/1	29.4	29.4
Bennett Mountain	Canyon Creek	4/1	28.4	28.2
Big Creek Summit	Salmon	4/1	31.4	36.9
Big Sandy Opening	Green	4/1	NA	11.3
Blind Bull Summit	Green	4/1	22.5	21.1
Bostetter Ranger Station	Trapper	4/1	NA	24.3
Bunchgrass Meadow	Pend Oreille	4/1	26.6	37.1
Cottonwood Lake	Salt	4/1	24.0	29.3
Cozy Cove	Deadwood	4/1	20.7	28.7
Crab Creek	Camas-Beaver	4/1	15.2	20.9
Deadwood Summit	Deadwood	4/1	42.2	43.8
Dollarhide Summit	Big Wood	4/1	27.2	28.8
Elk Butte	Clearwater	4/1	39.2	44.1
Elkhart Park Guard Station	Green	4/1	12.7	14.4
Emigrant Summit	Bear	4/1	38.3	37.4
Franklin Basin	Cub	4/1	27.9	35.6
Galena	Big Wood	4/1	18.1	22.1
Galena Summit	Big Wood	4/1	NA	22.6
Garfield Ranger Station	Little Wood	3/31	12.1	15.7
Giveout	Montpelier	4/1	14.1	14.2
Goat Creek	Salmon Falls	4/1	33.3	33.4
Graham Guard Station	Boise	4/1	19.6	26.6
Grassy Lake	Upper Snake	4/1	33.3	41.9
Gros Ventre Summit	Upper Snake	4/1	NA	12.4
Hemlock Butte	Clearwater	3/31	45.8	50.2
Hilts Creek	Little Lost	4/1	13.7	13.4
Howell Canyon	Marsh Creek	4/1	33.5	35.5
Humboldt Gulch	Coeur d'Alene	4/1	7.0	32.4
Hyndman	Big Wood	4/1	11.5	16.8
Indian Creek	Green	4/1	28.3	26.9
Island Park	Henry's Fork	4/1	15.6	22.2
Jackson Peak	Boise	4/1	30.7	35.5
Kelley Ranger Station	Green	4/1	19.0	20.8
Lewis Lake Divide	Upper Snake	4/1	28.9	37.1
Lolo Pass	Lochsa	4/1	22.7	25.7
Lookout	Coeur d'Alene	4/1	NA	34.0
Loomis Park	Green	4/1	12.5	16.6
Lost Lake	Clearwater	4/1	54.0	54.1
Lost-Wood Divide	Big Lost	4/1	19.1	23.3

(A) Aerial observation, water content estimated.

(b) 1961-1980, 20 year average.

(e) Snow course data estimated from automated Snotel readings.

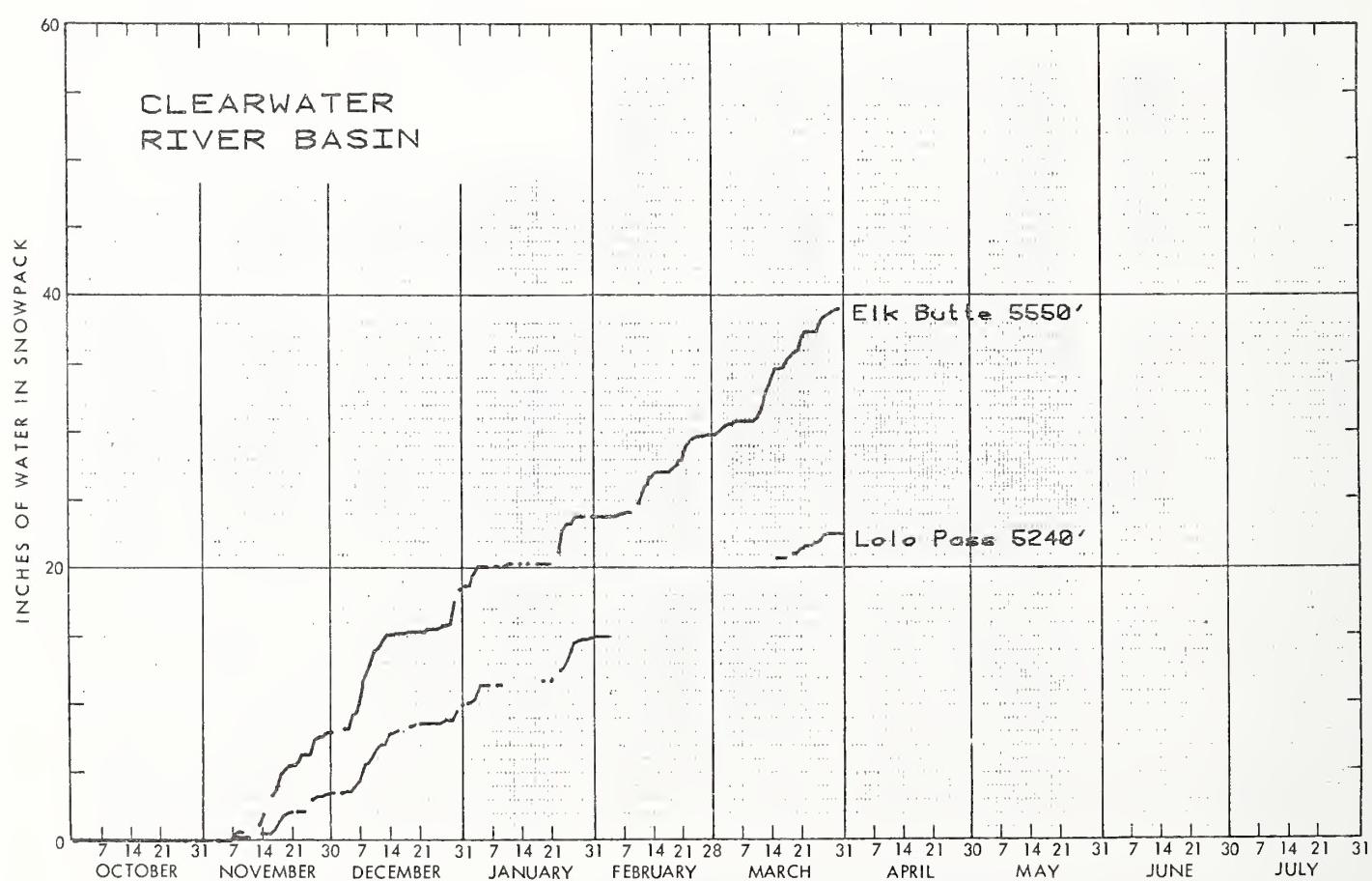
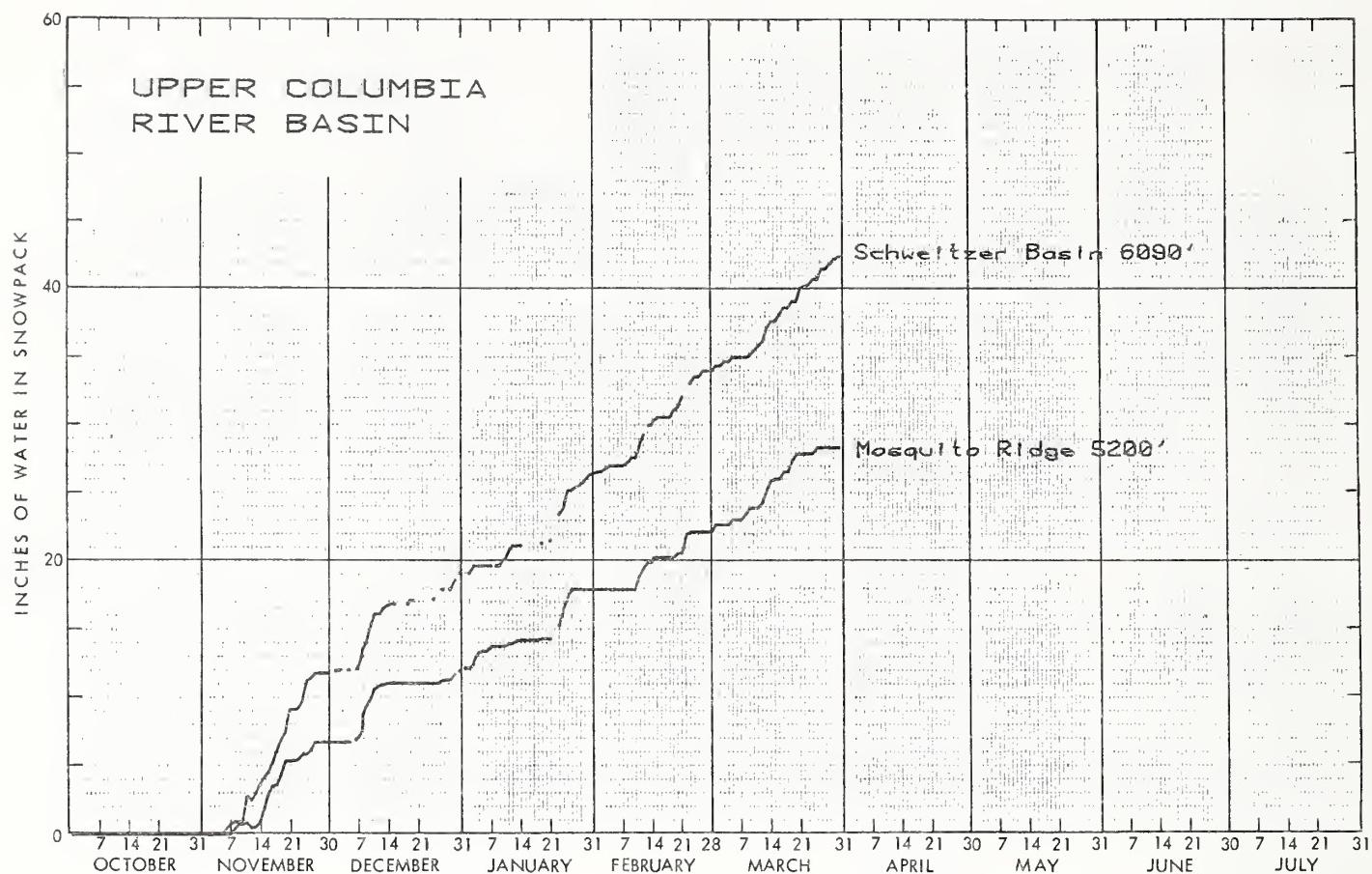
(*) Estimated 1961-1980 20 year average.

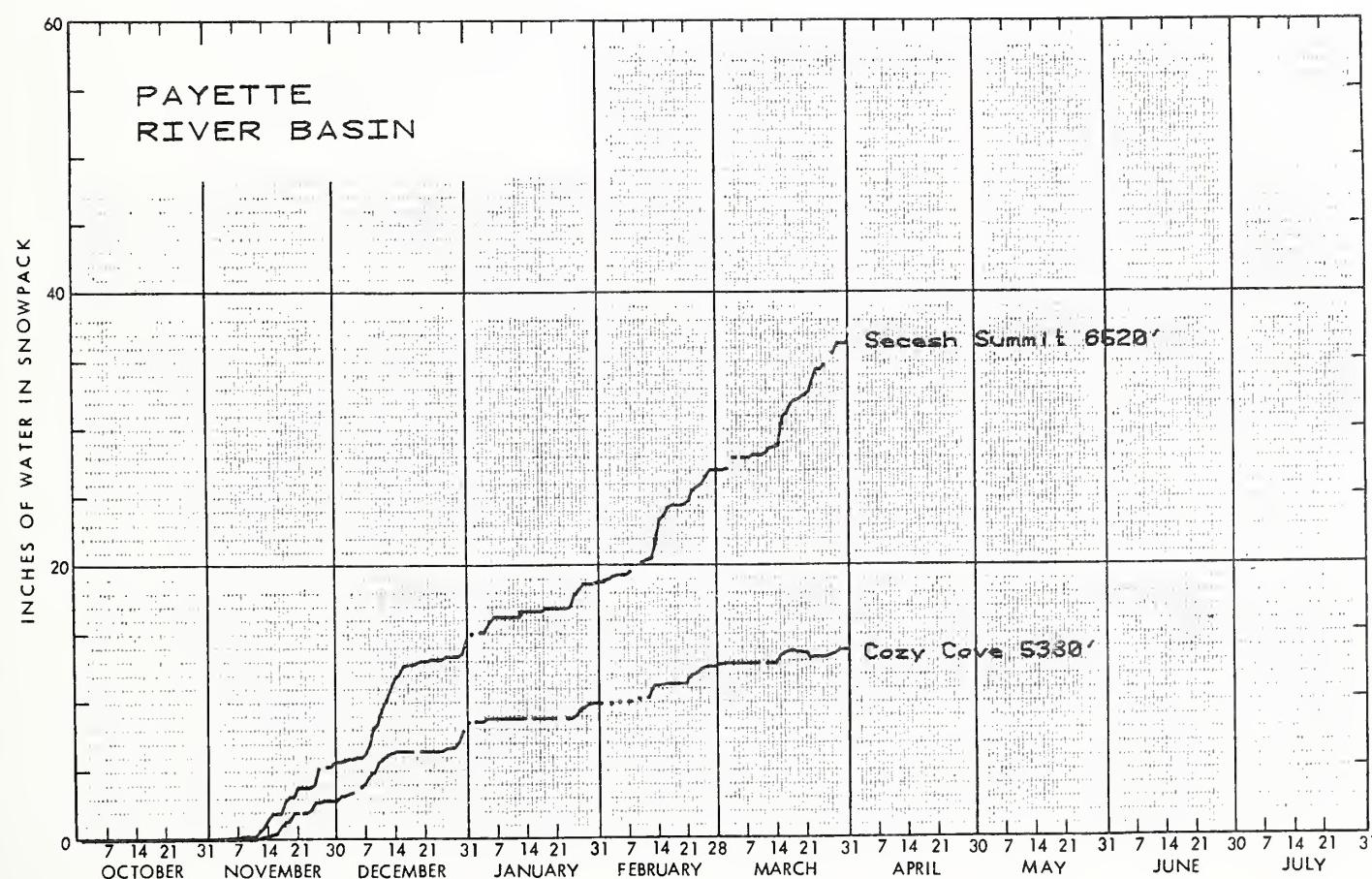
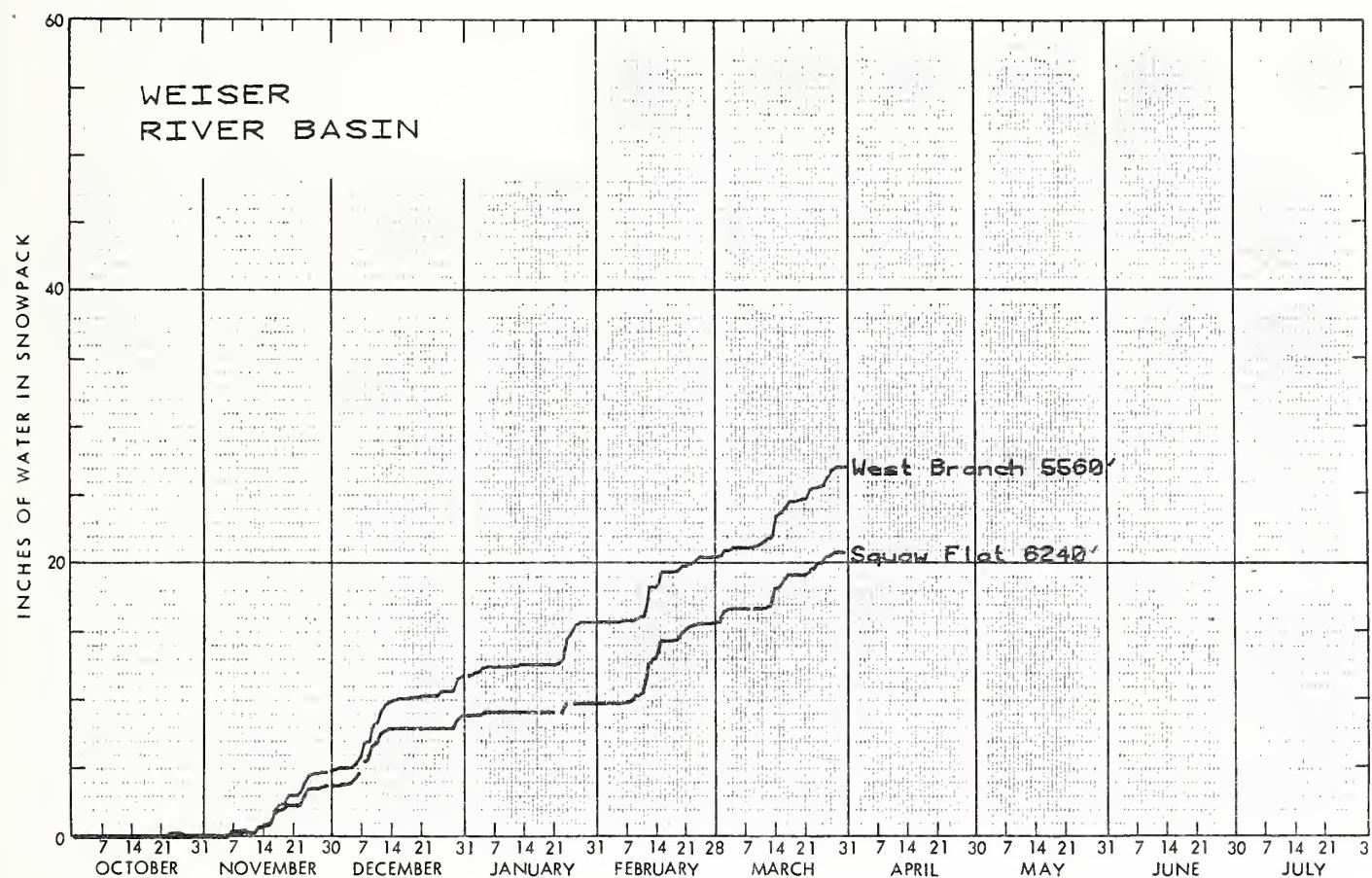
1/ Data readings as reported by automated Snotel system.

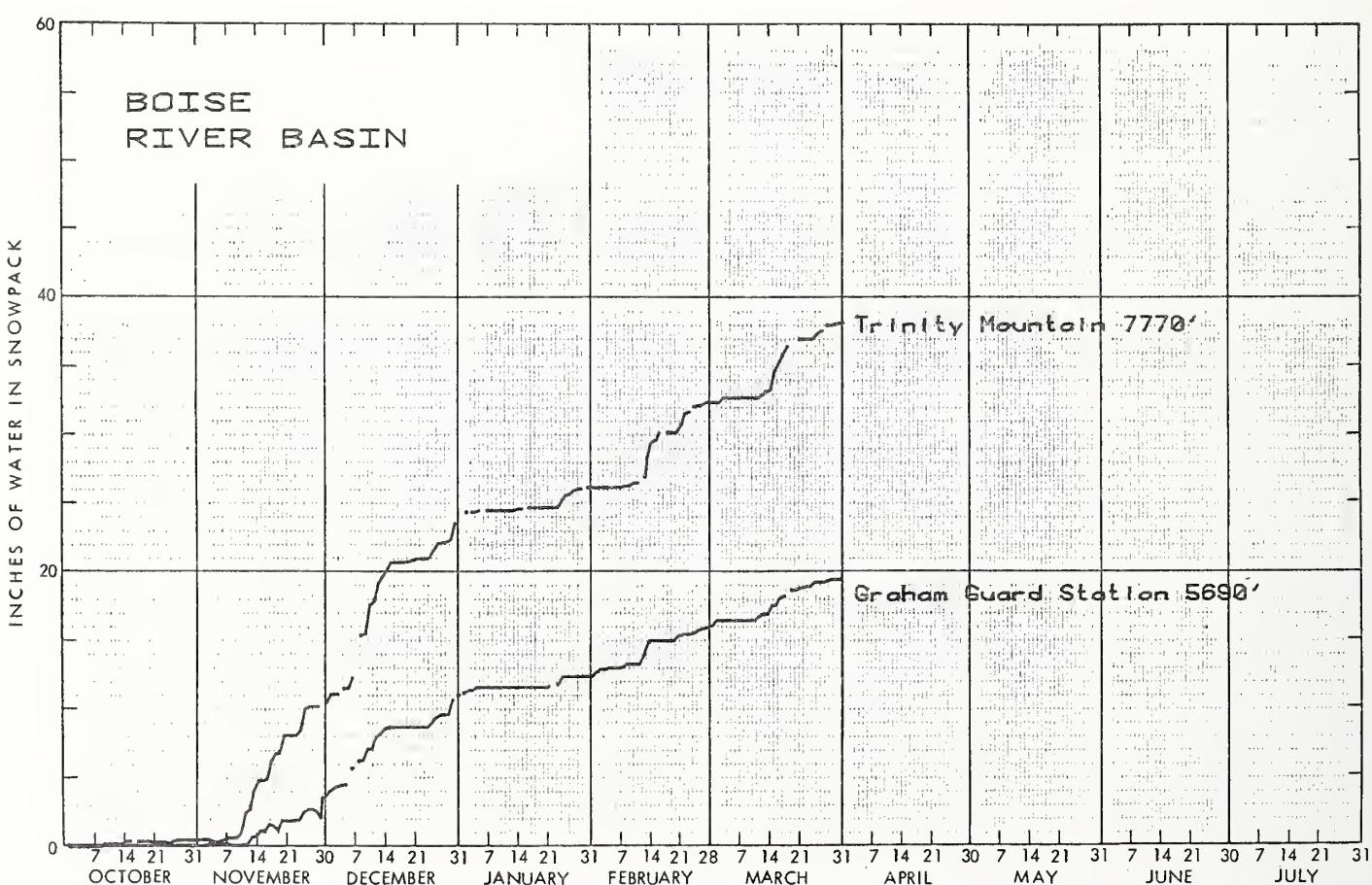
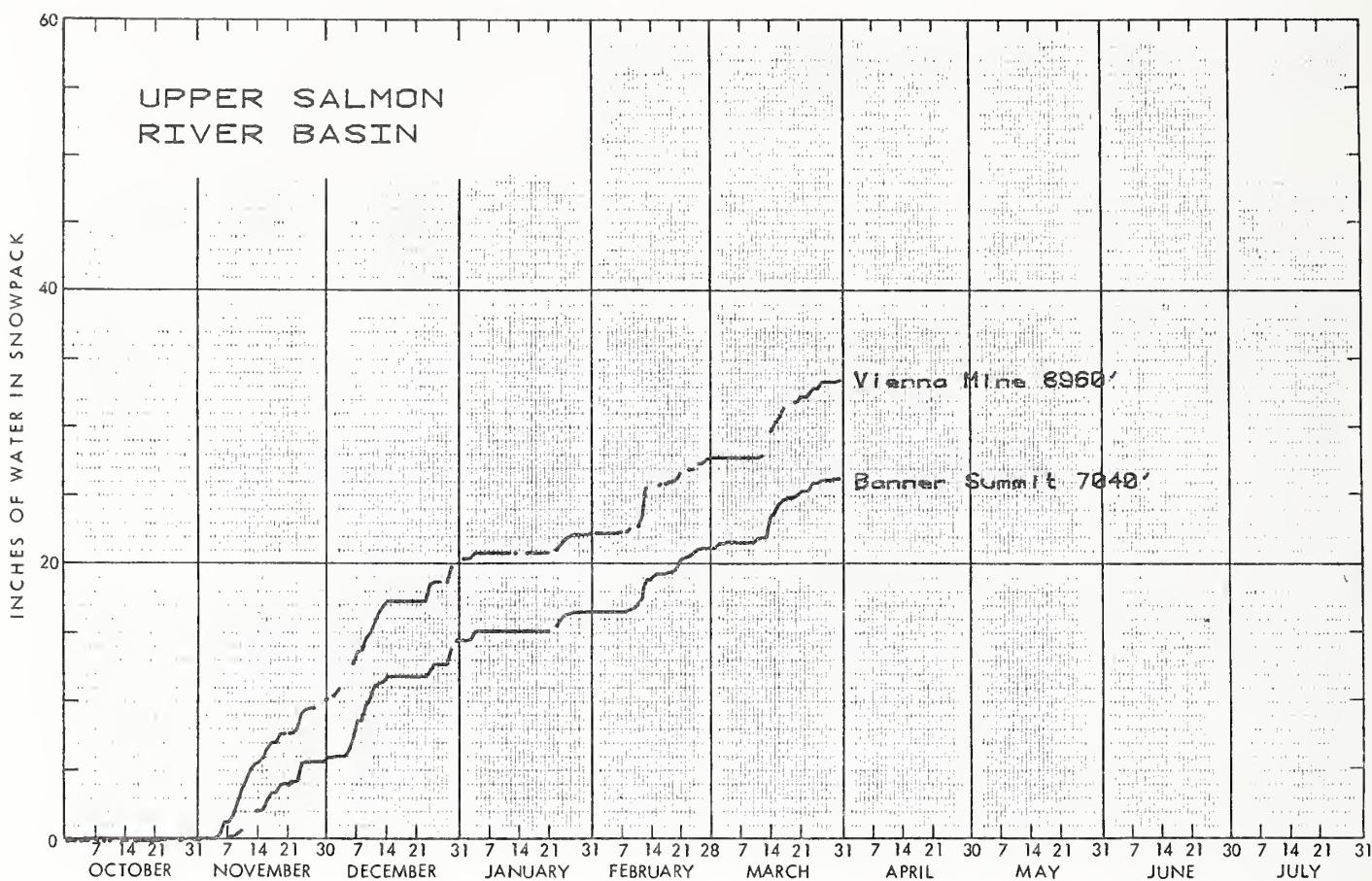
SNOTEL^{1/}

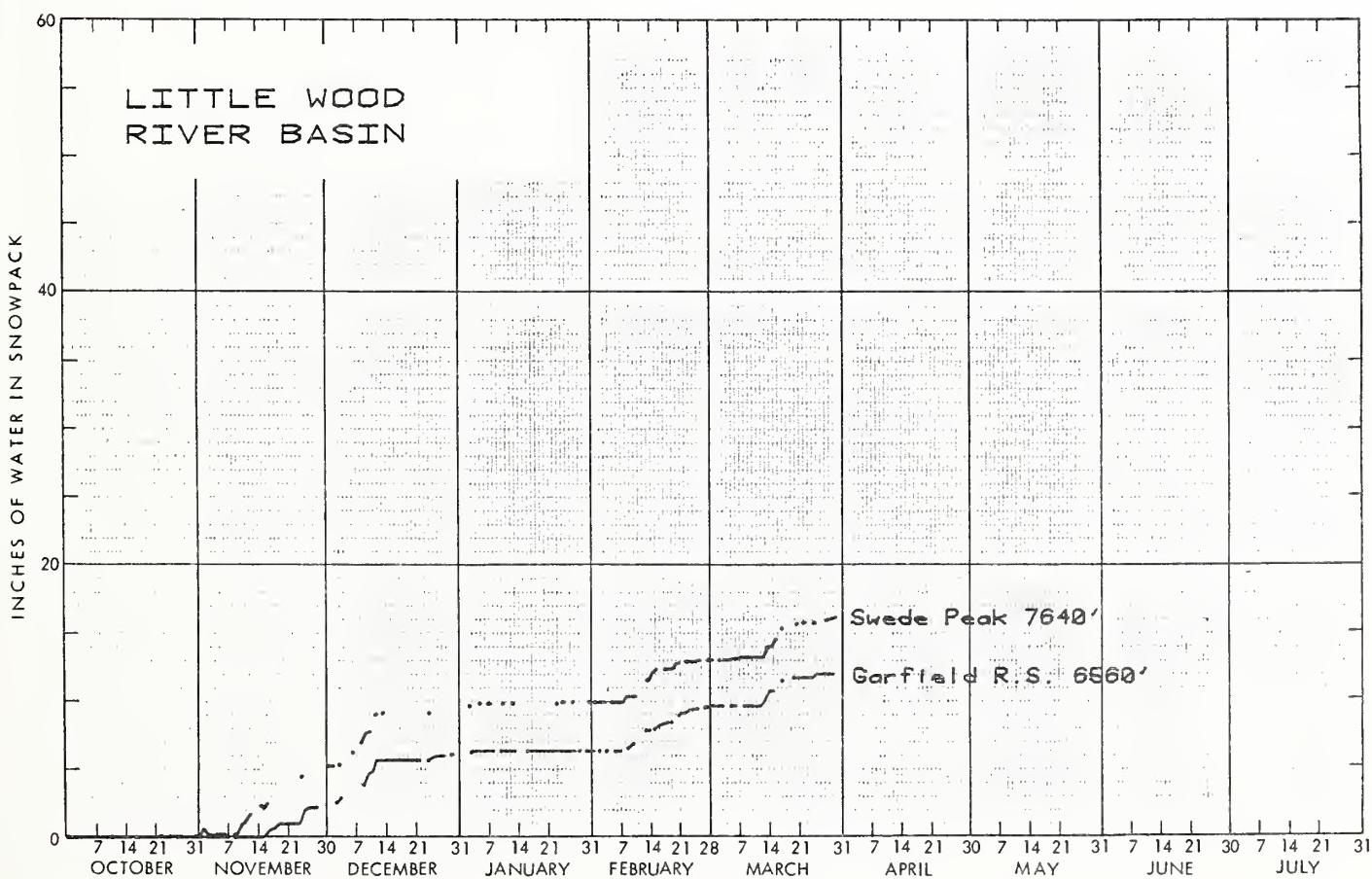
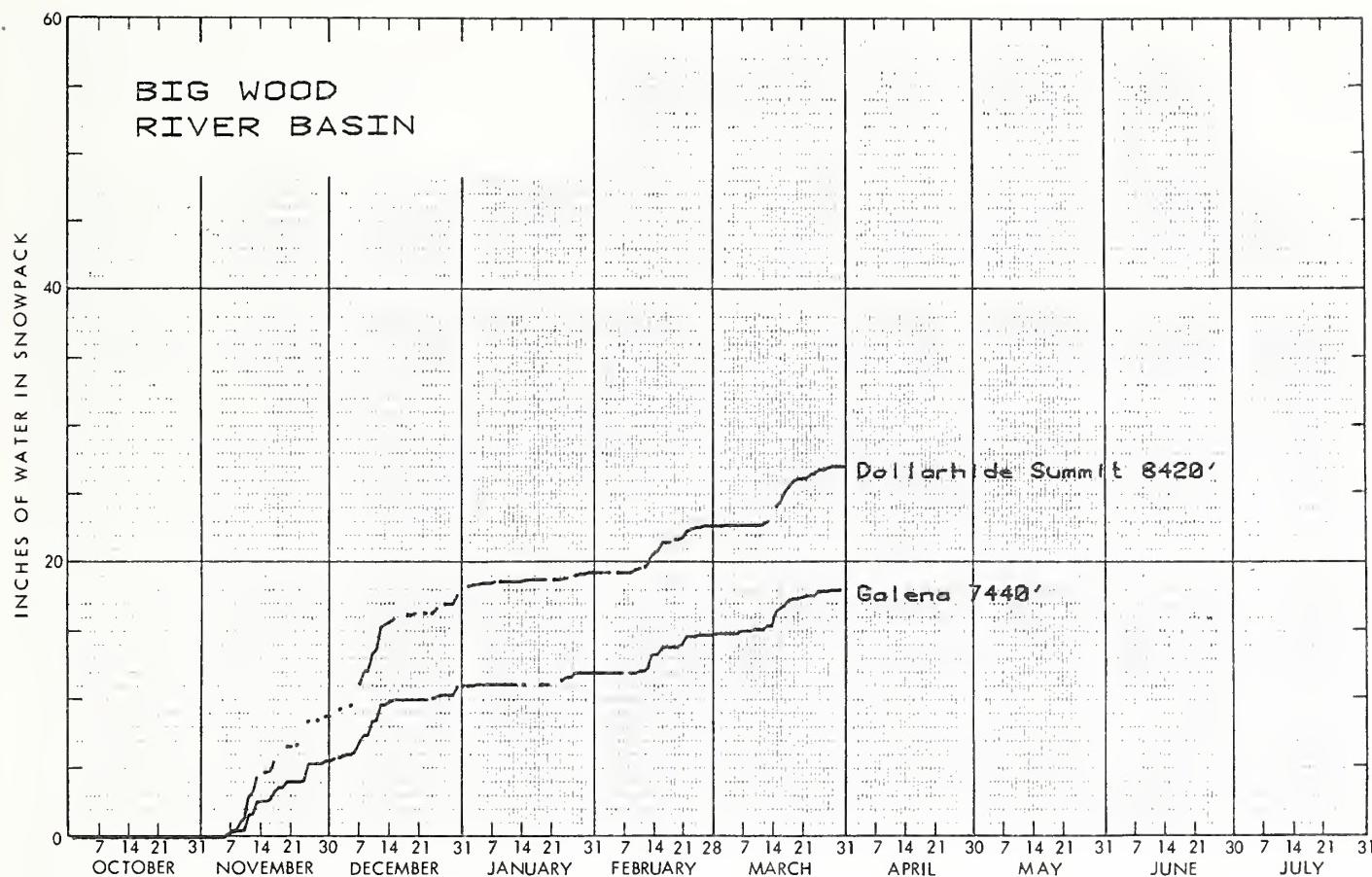
Data Site Name	Drainage	Date	Pillow Snow Water Equivalent (inches)	Precipitation Water Year (Accumulation) (inches)
Magic Mountain	Rock Creek	4/1	32.0	36.0
Meadow Lake	Lemhi	4/1	NA	18.9
Moonshine	Little Lost	4/1	11.0	15.0
Moores Creek Summit	Boise	3/31	38.1	NA
Moose Creek	North Fork Salmon	4/1	20.9	22.7
Morgan Creek	Salmon	4/1	15.7	18.5
Mosquito Ridge	Coeur d'Alene	4/1	28.6	36.0
Mountain Meadows	Selway	4/1	30.5	34.0
Mud Flat	Owyhee	4/1	11.1	16.8
Oxford Spring	Malad	4/1	20.1	29.3
Phillips Bench	Upper Snake	4/1	24.5	29.6
Pole Creek Ranger Station	Salmon Falls	4/1	31.7	20.9
Prairie	Boise	4/1	3.1	17.3
Salt River Summit	Salt	4/1	14.4	20.5
Savage Pass	Lochsa	4/1	23.0	27.8
Schweitzer Basin	Pend Oreille	4/1	42.6	36.5
Secesh Summit	Payette	4/1	37.1	41.4
Sheep Mountain	Willow	4/1	16.7	20.2
Sherwin	St. Maries	4/1	9.8	32.1
Slug Creek Divide	Blackfoot	4/1	21.0	23.8
Snider Basin	Green	4/1	11.0	12.3
Somson Ranch	Willow Creek	4/1	16.9	20.1
South Lind Experiment Sta.	Walla Walla	4/1	NA	7.3
South Mountain	Jordan-Owyhee	4/1	NA	24.1
Spring Creek Divide	Green	4/1	22.6	24.9
Squaw Flat	Weiser	4/1	20.9	29.2
Sunset	Coeur d'Alene	4/4	29.4	38.0
Swede Peak	Little Wood	4/1	16.3	20.0
Togwotee Pass	Upper Snake	4/1	21.7	27.5
Touchet #2	Touchet	4/1	32.5	42.1
Trinity Mountain	Boise	4/1	38.3	43.6
Two Ocean Plateau	Upper Snake	4/1	21.7	25.4
Vienna Mine	Salmon	4/1	33.5	31.8
West Branch	Weiser	4/1	27.1	33.7
White Elephant	Henrys Fork	4/1	24.5	32.0
Wildhorse Divide	Portneuf	4/1	NA	34.1
Willow Creek	Greys	4/1	40.4	40.8

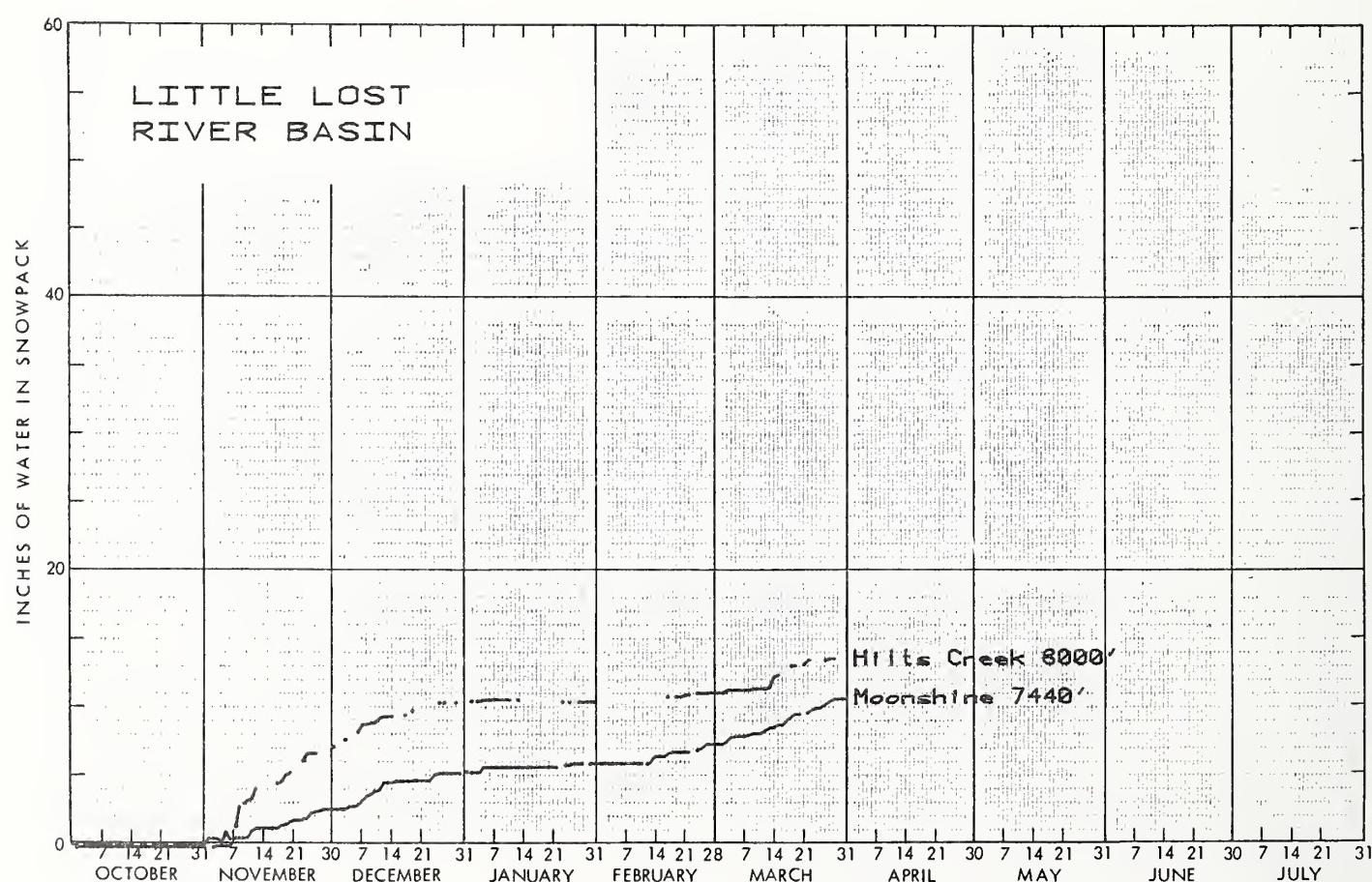
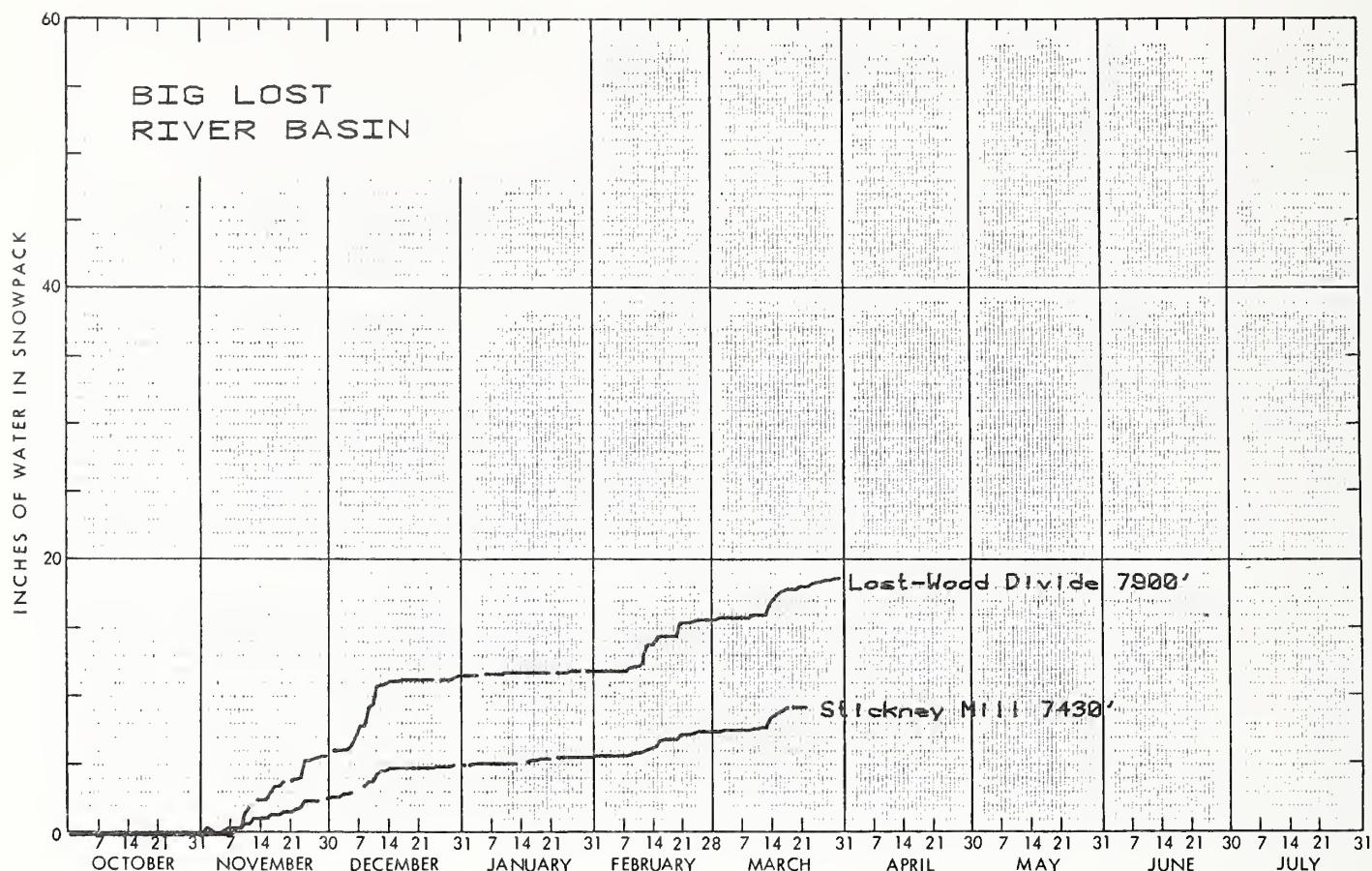
^{1/} Data readings as reported by automated Snotel system.
NA Data not available.

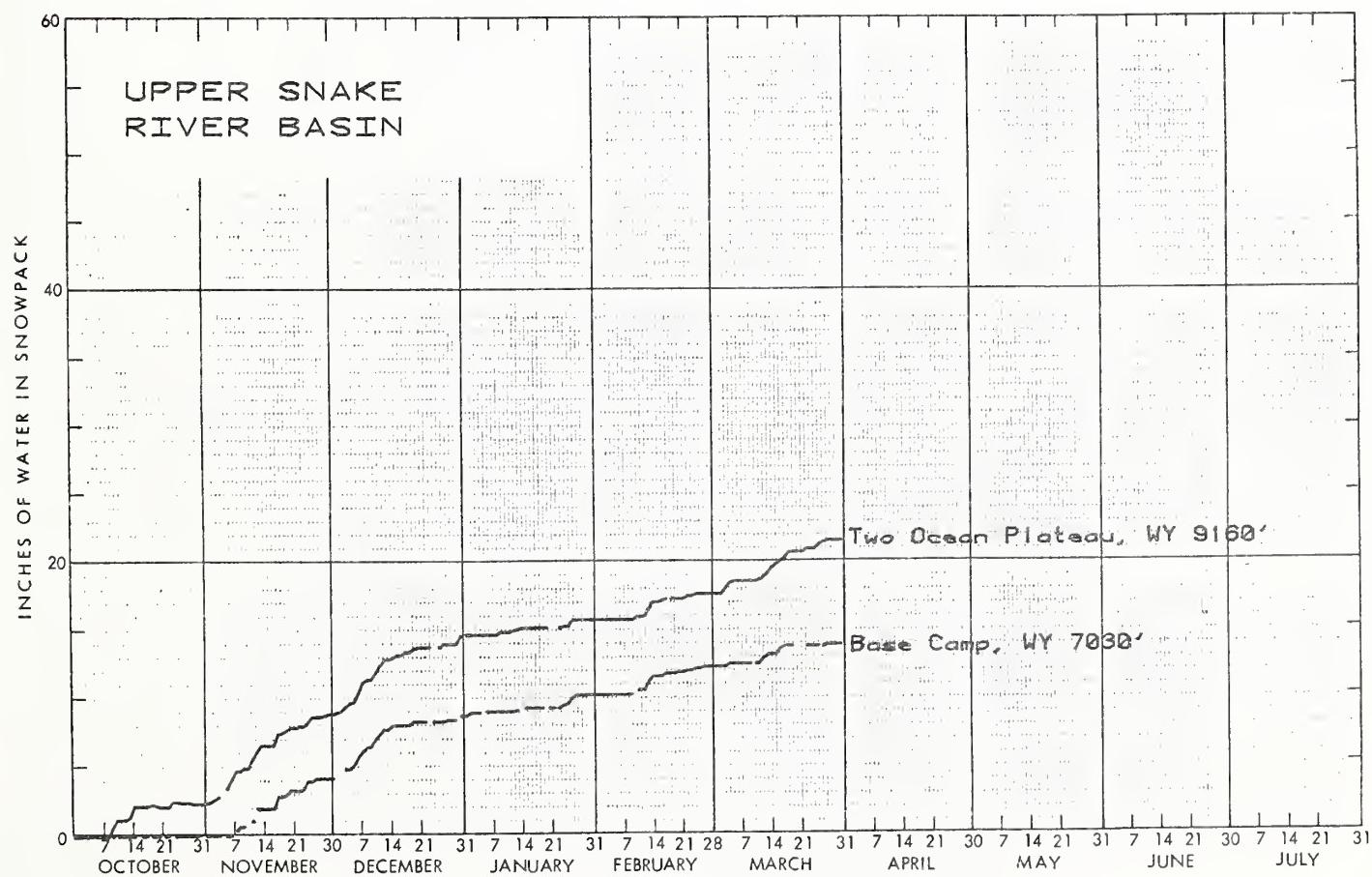
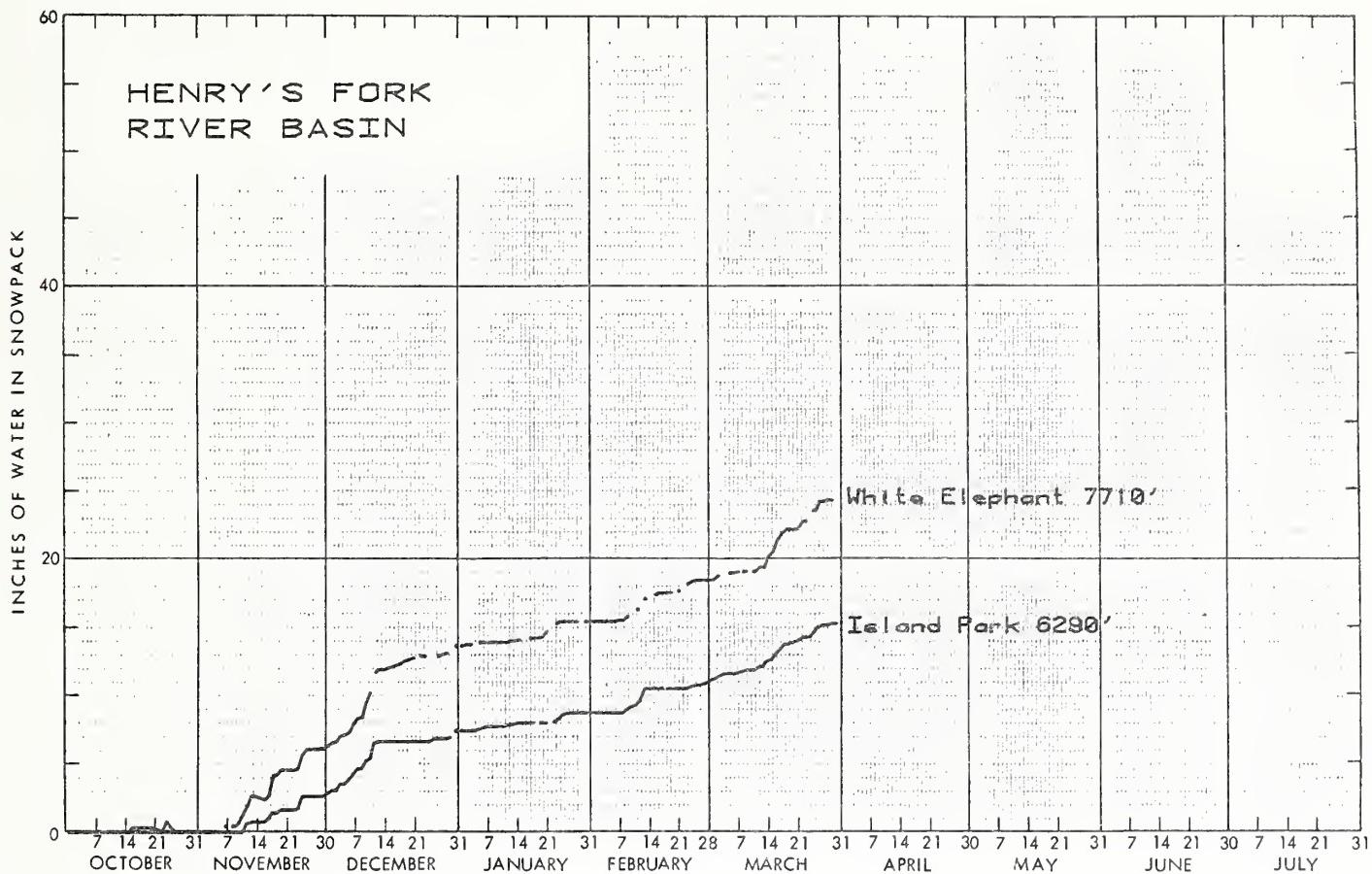


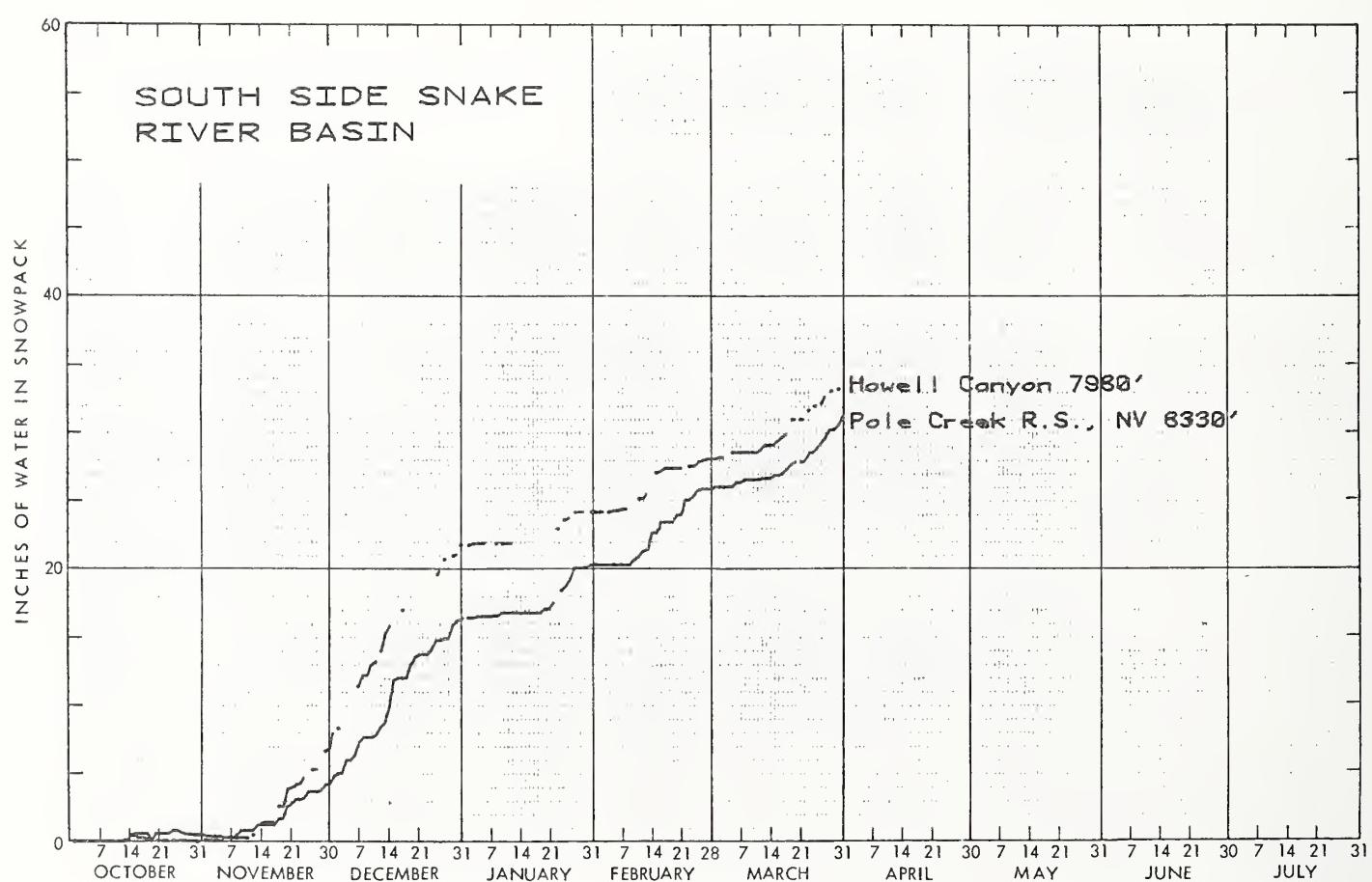
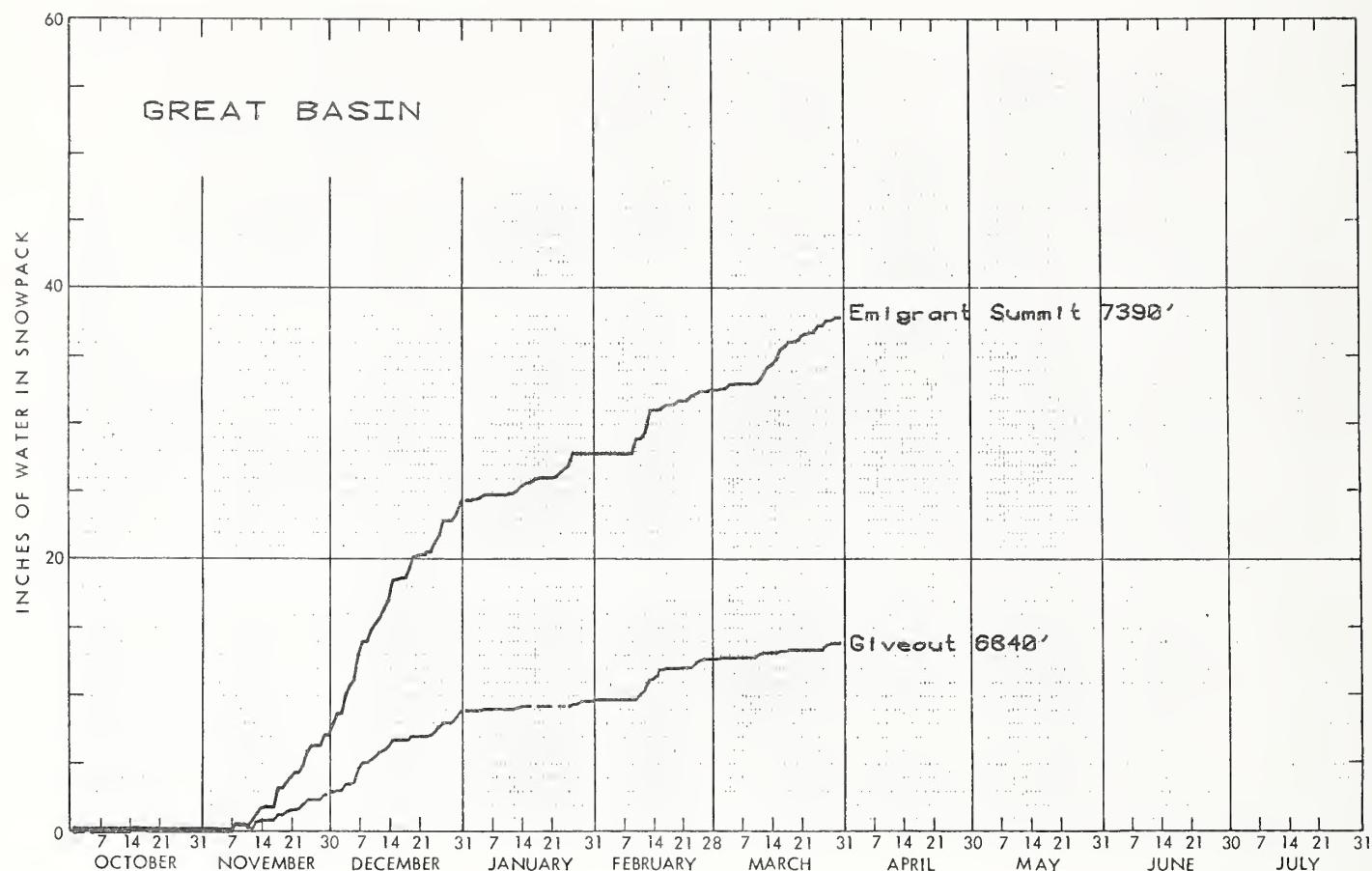


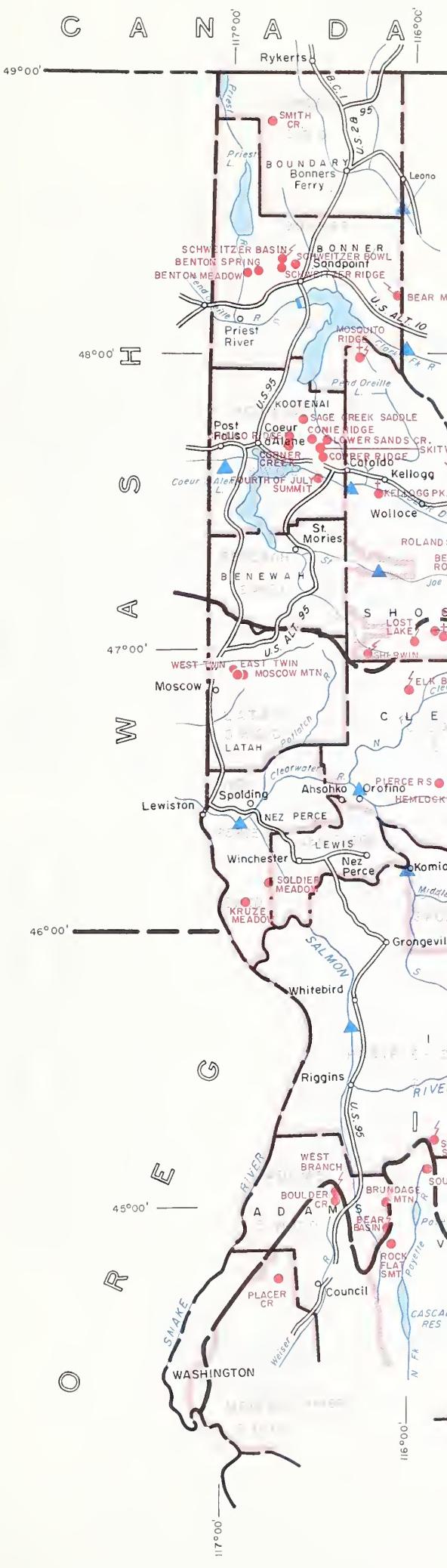












UPPER COLUMBIA and LOWER SNAKE RIVER BASINS

25 0 25 50 75
SCALE IN MILES

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Automated Site
- Aerial Snow Depth Gage

WATERSHED LOCATIONS



INDEX to SNOW COURSES

UPPER COLUMBIA BASIN

LOWER SNAKE BASIN

No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev	No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev							
KOOTENAI RIVER																				
16A1	I	Smith Creek	29	64N	3W	4800	16C3	I	East Twin	13	40N	5W	4130							
PEND OREILLE-PRIEST RIVER																				
16A8S	I	Bear Mountain	9	57N	3E	5400	16C2	I	Moscow Mountain	18	40N	4W	4410							
16A2	I	Benton Meadow	27	58N	4W	2370	16C4	I	West Twin	14	40N	5W	4220							
16A3	I	Benton Spring	30	58N	3W	4920	PALOUSE RIVER													
16A10S	I	Schweitzer Basin	18	58N	2W	6090	15B20	I	Breezy Saddle	1	43N	4E	5010							
16A6	I	Schweitzer Bowl	20	58N	2W	4800	15D5	I	Buck Meadows	27	31N	8E	5650							
16A5	I	Schweitzer Ridge	19	58N	2W	6200	15C3	I	Cayuse Airstrip	4	38N	11E	3500							
HAYDEN CREEK																				
16B8	I	Chilco Ridge	15	52N	2W	3650	15C7	I	Coolwater Mountain	31	33N	8E	6040							
16B7	I	Conie Ridge	22	52N	2W	3900	15C9A	I	Crater Meadows	11	37N	9E	5960							
16B9	I	Corner Creek	22	52N	2W	3150	14C11	I	Crooked Fork	27	37N	14E	3610							
16B6	I	Sage Creek Sadler	10	52N	2W	4080	16C15S	I	Elk Butte	6	40N	3E	5550							
SPOKANE RIVER																				
15B8	I	Above Burke	11	48N	5E	4100	15C2A	I	Fish Lake Airstrip	34	35N	11E	5650							
15B7	I	Above Roland	35	47N	6E	4350	15B3A	I	Forty-nine Meadows	6	43N	5E	4830							
15B6	I	Below Roland	35	47N	6E	3920	14C9A	I	Goat Lake	3	38N	13E	6500							
16B2	I	Copper Ridge	6	50N	1W	4820	15C6SR	I	Hemlock Butte	7	36N	7E	5810							
16B3	I	Fourth of July Summit	6	49N	1W	3200	15C10S	M	Hoodoo Basin	17	14N	27W	6000							
15B13A	I	Granite Peak	4	42N	8E	6000	15C1	M	Hoodoo Creek	16	14N	27W	5900							
15B21S	I	Humboldt Gulch	2	48N	5E	4250	14D3	I	Kit Carson Pasture	4	27N	15E	4950							
16B5A	I	Kellog Peak	19	48N	3E	5560	16C17	I	Kruze Meadows	11	32N	4W	4780							
15B2S	I	Lookout	4	47N	6E	5140	14C5S	I	Lolo Pass	16	38N	15E	5240							
16B1	I	Lower Sands Creek	32	51N	1W	3120	15B14S	I	Lost Lake	9	43N	4E	6110							
16A4AS	I	Mosquito Ridge	5	54N	2E	5200	15D6S	I	Mountain Meadows	9	27N	10E	6360							
15B5A	I	Roland Summit	26	47N	6E	5120	14D1	M	Nez Perce Pass	25	1S	24W	6570							
16C1S	I	Sherwin	28	42N	1E	3200	15C5	I	Pierce Ranger Station	2	36N	5E	3080							
16B11	I	Skitwish Ridge	6	50N	1W	4850	14C4S	I	Savage Pass	18	36N	15E	6170							
15B9AS	I	Sunset	33	49N	5E	5540	15C4S	I	Shanghai Summit	7	37N	6E	4600							
CLEARWATER RIVER																				
SALMON RIVER																				
13E19	I	Above Gilmore	13	13N	26E	8240	13E19	I	Above Gilmore	13	13N	26E	8240							
13E21A	I	Aspen-Hall Pass	6	16N	28E	8200	13E21A	I	Aspen-Hall Pass	6	16N	28E	8200							
16E11S	I	Bear Basin	30	19N	3E	5350	16E11S	I	Bear Basin	30	19N	3E	5350							
15E2S	I	Big Creek Summit	24	15N	5E	6580	15E2S	I	Big Creek Summit	24	15N	5E	6580							
13E8A	I	Borah	21	10N	23E	8250	13E8A	I	Borah	21	10N	23E	8250							
16D6	I	Brundage Mountain	6	19N	3E	7560	16D6	I	Brundage Mountain	6	19N	3E	7560							
14E08	I	Bruno Creek	25	12N	16E	7920	14E08	I	Bruno Creek	25	12N	16E	7920							
13E17	I	Copes Camp	36	18N	22E	7520	13E17	I	Copes Camp	36	18N	22E	7520							
13E25A	I	Double Springs Pass	3	10N	22E	8400	13E25A	I	Double Springs Pass	3	10N	22E	8400							
13D2	M	Gibbons Pass	4	2S	19W	7100	13D2	M	Gibbons Pass	4	2S	19W	7100							
13E20	I	Hall Creek	1	16N	27E	7560	13E20	I	Hall Creek	1	16N	27E	7560							
13E24A	I	Leatherman Pass	20	9N	23E	9860	13E24A	I	Leatherman Pass	20	9N	23E	9860							
13E1	M	Lemhi Pass	9	10S	15W	7480	13E1	M	Lemhi Pass	9	10S	15W	7480							
13E23S	M	Lemhi Ridge	4	10S	15W	8100	13E23S	M	Lemhi Ridge	4	10S	15W	8100							
13E18S	I	Meadow Lake	26	13N	26E	9150	13E18S	I	Meadow Lake	26	13N	26E	9150							
14E1S	I	Mill Creek Summit	8	13N	17E	8800	14E1S	I	Mill Creek Summit	8	13N	17E	8800							
13D16S	I	Moose Creek	14	27N	21E	6200	13D16S	I	Moose Creek	14	27N	21E	6200							
14E4S	I	Morgan Creek	31	18N	19E	7600	14E4S	I	Morgan Creek	31	18N	19E	7600							
13E26	I	Morse Creek Sawmill	8	15N	23E	7120	13E26	I	Morse Creek Sawmill	8	15N	23E	7120							
14D5	I	Perreau Meadows	23	21N	20E	8500	14D5	I	Perreau Meadows	23	21N	20E	8500							
14E7	I	Redfish Lake Flat	35	10N	13E	6560	14E7	I	Redfish Lake Flat	35	10N	13E	6560							
13E16	I	Schwartz Lake	34	18N	22E	8540	13E16	I	Schwartz Lake	34	18N	22E	8540							
14E3A	I	Twin Peaks	28	15N	17E	9190	14E3A	I	Twin Peaks	28	15N	17E	9190							
14F4S	I	Vienna Mine	1	5N	13E	8960	14F4S	I	Vienna Mine	1	5N	13E	8960							
14D4	I	Williams Creek Summit	34	21N	20E	7990	14D4	I	Williams Creek Summit	34	21N	20E	7990							

LEGEND

Numbering System (example)

- 10J7 Snow course only
- 10J7A Snow course and/or aerial marker
- 10J7S Snow course and snotel site
- 10J7R Radioactive gage

MIDDLE SNAKE RIVER BASIN NORTHSIDE

25 0 25 50 75
SCALE IN MILES



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- Snow Course and Automated Site
- † Aerial Snow Depth Gage

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN NORTHSIDE

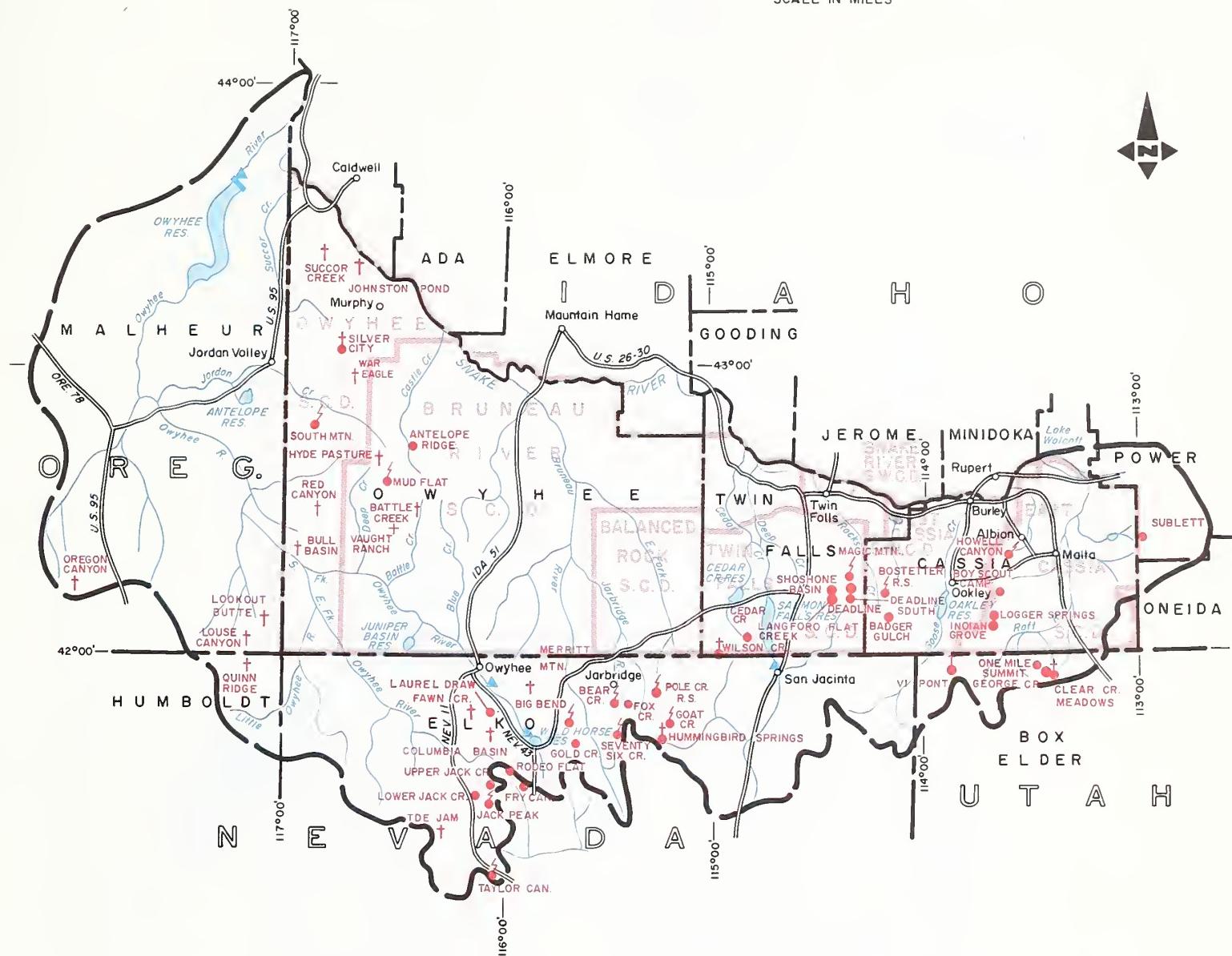
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LITTLE LOST RIVER																							
13E5	I	Fairview Guard Station	27	12N	26E	6750		14F10	I	Couch Summit	9	2N	14E	6840									
13E27S	I	Hilts Creek	15	8N	25E	8000		16F1	I	Deadman Gulch	29	7N	4E	5600									
13E3	I	Lost-Garfield	3	11N	26E	6600		15F14S	I	Graham Guard Station	9	7N	10E	5690									
13E6S	I	Moonshine	31	13N	26E	7440		15F16	I	Idaho City Townsite	26	6N	5E	4000									
13E4	I	Sawmill Canyon	17	12N	26E	7000		15E9S	I	Jackson Peak	7	8N	9E	7070									
13E7	I	Wet Creek Summit	15	8N	25E	7680		15F1S	I	Moores Creek Summit	19	7N	7E	6100									
BIG LOST RIVER																							
13F3S	I	Bear Canyon	22	5N	21E	7900		15F6S	I	Prairie	13	2N	7E	4800									
13F2	I	Copper Basin	26	6N	21E	7640		15F3	I	Road Creek	5	5N	8E	5380									
13F20	I	Dry Fork	23	3N	23E	7220		15F5S	I	Trinity Mountain	6	3N	9E	7770									
13F8	I	Fishpole Lake	28	4N	22E	9300	BOISE RIVER (cont.)																
13F11	I	Iron Bog	23	4N	22E	7650																	
13F12	I	Leadbelt	34	4N	23E	6700																	
14F3S	I	Lost Wood Divide	25	6N	18E	7900																	
14F2S	I	Stickney Mill	9	6N	19E	7430																	
BIG WOOD RIVER															CANYON CREEK								
15F9	I	Camas Creeks Divide	11	2S	9E	5710		15F7S	I	Bennett Mountain	7	2S	9E	6560									
15F15	I	Chimney Creek	9	1N	12E	6400		15F12	I	Little Camas Flat	21	1S	9E	4940									
14F8S	I	Dollarhide Summit	9	3N	15E	8420																	
14F1	I	Galena	4	6N	15E	7440																	
14F17S	I	Galena Snotel	4	6N	15E	7470																	
14F12S	I	Galena Summit	7	6N	15E	8780																	
14F5	I	Graham Ranch	10	5N	17E	6270																	
14F16S	I	Hyndman Creek	2	4N	19E	7440																	
14F7	I	Mascot Mine	8	4N	20E	7780																	
14F9	I	Mount Baldy	23	4N	17E	8920																	
14F11	I	Soldier Ranger Station	29	2N	14E	5740																	
LITTLE WOOD RIVER															PAYETTE RIVER								
13F4S	I	Garfield Ranger Station	11	3N	21E	6560		15E11S	I	Banner Summit	11	11N	10E	7040									
13F5	I	Muldoon	26	3N	21E	6320		16F2	I	Bogus Basin	16	5N	3E	6340									
13F9S	I	Swede Peak	4	3N	21E	7640		15E8S	I	Cozy Cove	17	11N	7E	5380									
FISH CREEK															15E3	I	Crawford Ranger Station	21	14N	4E	4860		
13F10	I	Iron Mine Creek	33	3N	23E	6300		15E10	I	Deadwood Airstrip	8	11N	7E	5360									
13F6	I	Telfer Ranch	7	2N	23E	5840		15E4S	I	Deadwood Summit	13	14N	7E	6860									
BOISE RIVER															15E1	I	Lake Fork	3	18N	4E	5290		
15F17	I	Atlanta Townsite	3	5N	11E	5370		16E1	I	Rock Flat Summit	1	18N	2E	5310									
15F4S	I	Atlanta Summit	23	5N	10E	7580		15D1S	I	Secesh Summit	4	21N	4E	6520									
15F2	I	Bad Bear	35	7N	6E	4940		15D2	I	Squaw Meadow	17	21N	4E	5900									
16F4	I	Bogus Basin Road	32	5N	3E	5540		16E3	I	Tripod Summit	17	11N	3E	5260									
WEISER RIVER															MANN CREEK								
								16D1	I	Boulder Creek	16	20N	1W	5440									
								16E2	I	Placer Creek	15	17N	3W	5860									
								16E5S	I	Squaw Flat	32	17N	2E	6240									
								16D8S	I	West Branch	15	20N	1W	5560									
LEGEND															6E10S	I	Bear Saddle	29	15N	5W	6180		
								16E9	I	Mann Creek	20	15N	5W	6080									
								17E1	I	Robinson Creek Ridge	2	14N	6W	6220									
								16E8	I	Sturgill Ridge	28	15N	5W	6680									
								17E2	I	Thorson Cabin	12	14N	6W	5320									

Numbering System (example)

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- 10J7S Snow course and snotel site
- 10J7R Radioactive gage

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

25 0 25 50 75
SCALE IN MILES



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- Snow Course and Automated Site
- Aerial Snow Depth Gage

WATERSHED LOCATIONS



INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

No.	State	Name	Sec.	Twp.	Rge.	
			Lat.	or And	Long.	Elevation
RAFT RIVER						
13G2	I	Boy Scout Camp	8	14S	24E	7740
13H2	U	Clear Creek Meadows	26	14N	14W	9420
13H5	U	George Creek	26	14N	14W	8840
13G1S	I	Howell Canyon	2	13S	24E	7980
13G4	I	Indian Grove	14	15S	23E	7560
13G3	I	Logger Springs	2	15S	23E	8120
13H1	U	One Mile Summit	17	14N	14W	7330
12G8	I	Sublett	17	12S	30E	5950
GOOSE - TRAPPER CREEK						
14G3	I	Badger Gulch	24	15S	19E	6660
14G1S	I	Bostetter Ranger Station	35	14S	19E	7500
13H3A	U	Vi Pont	17	14N	17W	7670
SALMON FALLS CREEK						
14G5	I	Cedar Creek	26	15S	13E	6800
14G4	I	Deadline	25	14S	18E	6900
14G10	I	Deadline South	25	14S	18E	7450
15H13S	N	Goat Creek	31	46N	60E	8880
14G08	I	Langford Flat Creek	8	15S	18E	5980
14G2S	I	Magic Mountain	25	14S	18E	6880
14G6	I	Shoshone Basin	24	14S	17E	5810
15G2	I	Wilson Creek	24	16S	12E	7500
BRUNEAU RIVER						
15H1S	N	Bear Creek	31	46N	58E	8040
15H2	N	Fox Creek	33	46N	58E	6750
15H15	N	Hummingbird Springs	12	45N	59E	8870
15H14S	N	Pole Creek Ranger Station	13	46N	59E	8330
15H3S	N	Seventy-six Creek	6	44N	58E	7100
OWYHEE RIVER						
16G6	I	Antelope Ridge	3	9S	1W	6180
16G9A	I	Battle Creek	10	11S	1E	5720
15H4S	N	Big Bend	30	45N	56E	6700
16G10A	I	Bull Basin	29	12S	5W	5460
16H6A	N	Columbia Basin	31	44N	53E	6650
16H8A	N	Fawn Creek	2	45N	52E	7000
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	32	45N	56E	6600
16G5A	I	Hyde Pasture	31	8S	2W	5760
16H4S	N	Jacks Peak	21	42N	53E	8420
16F5A	I	Johnston Pond	5	4S	4W	6700
16H5S	N	Laurel Draw	20	45N	53E	6700
17G6A	O	Lookout Butte	2	40S	47E	5650
17G4A	O	Louse Canyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	18	42N	53E	6800
15H20A	N	Merritt Mountain	10	46N	54E	7000
16G7S	I	Mud Flat	34	9S	2W	5730
17G5A	O	Oregon Canyon	8	40S	40E	6950
17H6A	N	Quinn Ridge	9	47N	41E	6300
16G11A	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3	I	Silver City	7	5S	3W	6400
16G1S	I	South Mountain	35	7S	5W	6500
16F6A	I	Succor Creek	25	3S	5W	6100
15H9S	N	Taylor Canyon	35	39N	53E	6200
16H7A	N	Toe Jam	29	40N	50E	7700
16H2	N	Upper Jack Creek	9	42N	53E	7250
16G12A	I	Vaught Ranch	23	11S	1W	5830
16G13A	I	War Eagle	16	5S	3W	7720

LEGEND

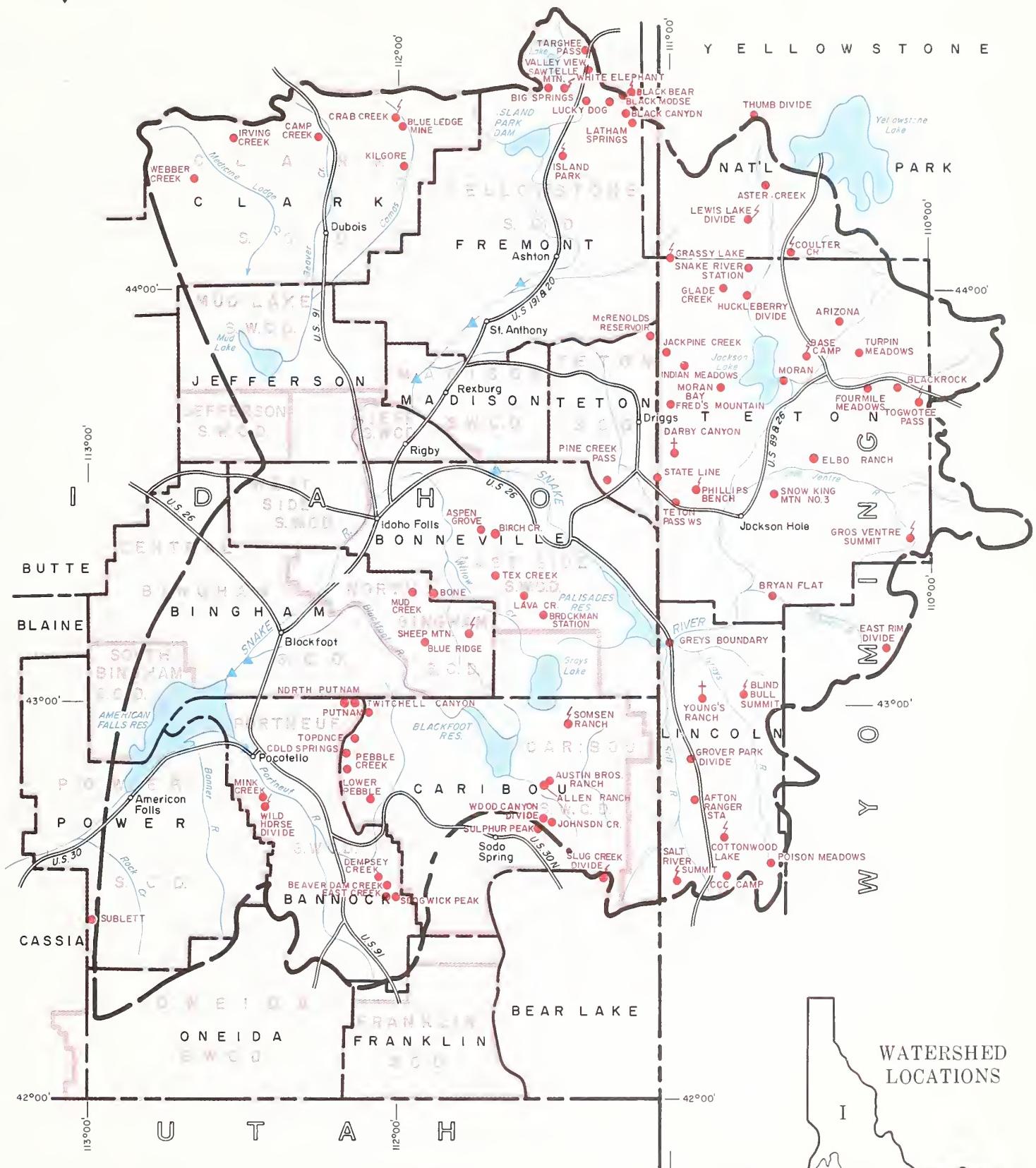
Numbering System (example)

- 10J7 Snow course only
- 10J7A Snow course and/or aerial marker
- 10J7S Snow course and snotel site
- 10J7R Radioactive gage

UPPER SNAKE RIVER BASIN



25 0 25 50
SCALE IN MILES



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- Snow Course and Automated Site
- † Aerial Snow Depth Gage



INDEX to SNOW COURSES

UPPER SNAKE RIVER BASIN

No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev		No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev								
SNAKE RIVER-WYOMING																						
10G4	Wy	Afton Ranger Station	30	32N	118W	6240		11E11	I	Blue Ledge Mine	21	13N	38E	6900								
10F1	Wy	Arizona	3	46N	115W	6820		12E3	I	Camp Creek	21	13N	36E	6580								
10E8	Wy	Aster Creek	44°17'		110°38'	7750		11E37S	I	Crab Creek	21	13N	38E	6860								
10F2S	Wy	Base Camp	20	46N	113W	7030		11E12	I	Kilgore	6	12N	39E	6320								
10F7S	Wy	Blackrock	4	44N	111W	8900	CAMAS-BEAVER CREEK															
10G2S	Wy	Blind Bull	6	34N	115W	8650		MEDICINE LODGE CREEK														
10F14	Wy	Bryan Flat	9	38N	115W	6420		12E4	I	Irving Creek	8	13N	33E	7280								
10G7	Wy	CCC Camp	9	29N	118W	7000		12E5	I	Webber Creek	23	12N	32E	6700								
10G5S	Wy	Cottonwood Lake	25	31N	118W	7600	WILLOW CREEK															
10E10S	Wy	Coulter Creek	44°10'		110°33'	7020		11F10	I	Aspen Grove	36	2N	41E	6500								
10F17	Wy	East Rim Divide	32	37N	111W	7930		11F3	I	Birch Creek	36	2N	41E	6800								
10F28	Wy	Elbo Ranch	25	43N	115W	7100		11F8	I	Bone	29	1S	40E	6200								
10F6	Wy	Four Mile Meadows	35	45N	112W	7860		11F16	I	Brockman Station	19	2S	43E	6430								
10E13	Wy	Glade Creek	12	48N	116W	7040		11F15	I	Lava Creek	27	1S	42E	7350								
10F18	Wy	Greys Boundary	33	37N	118W	5720		11F14	I	Mud Creek	4	2S	39E	7100								
10F19S	Wy	Gros Ventre Summit	36	40N	111W	8750		11F11S	I	Sheep Mountain	30	2S	41E	6570								
10G3	Wy	Grover Park Divide	27	33N	118W	7000		11F5	I	Tex Creek	36	1N	41E	6650								
10E14	Wy	Huckleberry Divide	32	48N	115W	7300	BLACKFOOT RIVER															
10E9S	Wy	Lewis Lake Divide	44°12'		110°40'	7850		11G35	I	Allen Ranch	28	7S	43E	6470								
10F4	Wy	Moran	19	45N	114W	6750		11G3	I	Austin Brothers Ranch	28	7S	43E	6400								
10F3	Wy	Moran Bay	14	45N	116W	6810		11F17	I	Blue Ridge	35	2S	39E	6780								
10G6	Wy	Poison Meadows	29	30N	116W	8500		11G36	I	Johnson Creek	4	9S	43E	6730								
10G8S	Wy	Salt River Summit	32	29N	118W	7700		11G5S	I	Slug Creek Divide	15	10S	44E	7225								
10E12	Wy	Snake River Station	9	48N	115W	6920		11G1S	I	Somsen Ranch	25	5S	43E	6800								
10F20	Wy	Snow King Mountain #3	4	40N	116W	7660		11G31	I	Sulphur Peak	8	9S	43E	7070								
10E7	Wy	Thumb Divide	44°22'		110°34'	7980		11G37	I	Wood Canyon Divide	5	9S	43E	7450								
10F9S	Wy	Togwotee Pass	28	44N	110W	9580	FORT PORTNEUF RIVER															
10F5	Wy	Turpin Meadows	14	45N	112W	6900		12G21	I	Beaverdam Creek	22	10S	38E	6120								
10G1A	Wy	Young's Ranch	26	34N	116W	6650		12G16	I	Cold Springs	15	7S	37E	7000								
HENRY'S FORK RIVER																						
11E9	I	Big Springs	4	13N	44E	6400		12G5	I	Dempsey Creek	18	10S	38E	6100								
11E35S	M	Black Bear	27	15S	5E	7950		11G34	I	East Creek	26	10S	38E	7000								
11E18	I	Black Canyon	11	13N	45E	7960		12G6	I	Lower Pebble	7	8S	38E	5780								
11E19	I	Black Moose	33	14N	45E	8160		12G1	I	Mink Creek	33	7S	34E	6410								
11OE15S	Wy	Grassy Lake	18	48N	116W	7265		12G20	I	North Putnam	29	5S	37E	7240								
11E10S	I	Island Park	28	13N	43E	6290		12G2	I	Pebble Creek	35	7S	37E	6400								
11E16	I	Latham Springs	9	13N	45E	7630		12G14	I	Putnam	2	6S	37E	7220								
11E14	I	Lucky Dog	2	13N	44E	6860		11G30	I	Sedgwick Peak	30	10S	39E	7850								
11E32	I	Sawtell Mountain	7	14N	43E	8720		12G15	I	Toponce	23	6S	37E	6160								
11E34	I	Targhee Pass	32	16N	44E	6980		12G19	I	Twitchell Canyon	21	5S	37E	6300								
11E8	I	Valley View	12	15N	43E	6680		12G17S	I	Wildhorse Divide	4	8S	34E	6490								
11E36S	I	White Elephant	17	14N	43E	7710	TETON RIVER															
10F21A	Wy	Darby Canyon	28	43N	118W	8250		12G2	I	Beaverdam Creek	22	10S	38E	6120								
10F22	Wy	Freds Mountain	12	44N	118W	8000		12G16	I	Cold Springs	15	7S	37E	7000								
10F25	Wy	Indian Meadows	33	46N	117W	8240		12G5	I	Dempsey Creek	18	10S	38E	6100								
10F26	Wy	Jackpine Creek	15	46N	118W	7350		11G34	I	East Creek	26	10S	38E	7000								
11F12	I	McRenolds Reservoir	5	7N	46E	6720		12G6	I	Lower Pebble	7	8S	38E	5780								
10F23S	Wy	Phillips Bench	43°31'		110°55'	8200		12G1	I	Mink Creek	33	7S	34E	6410								
11F2	I	Pine Creek Pass	24	3N	44E	6810		12G20	I	North Putnam	29	5S	37E	7240								
11F1	I	State Line	32	3N	46E	6660		12G2	I	Pebble Creek	35	7S	37E	6400								
10F24	Wy	Teton W. S.	43°30'		110°59'	7740		12G14	I	Putnam	2	6S	37E	7220								

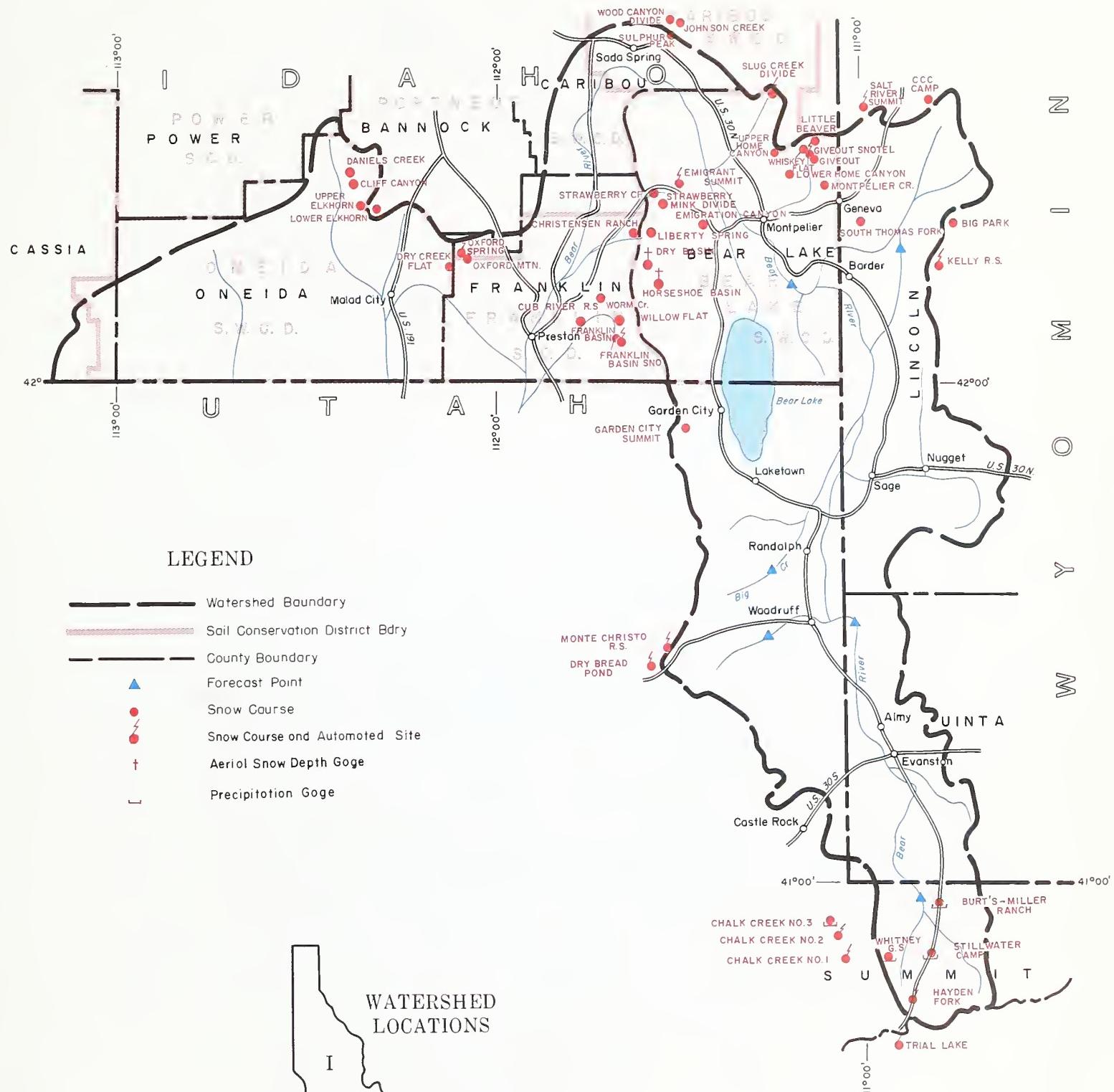
LEGEND

Numbering System (example)

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- 10J7R Radioactive gage

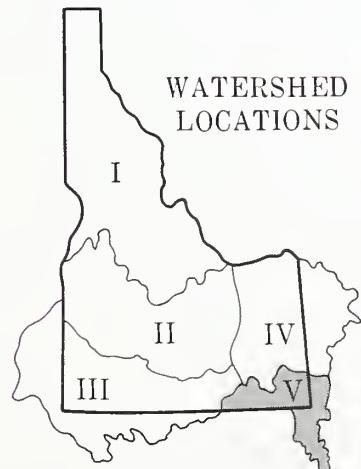
GREAT BASIN

25 0 25 50
SCALE IN MILES



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- Snow Course and Automated Site
- † Aeriol Snow Depth Goge
- Precipitation Goge



INDEX to SNOW COURSES

GREAT BASIN

No.	State	Name	Sec.	Twp.	Rge.
			Lat.	or And	Long.

BEAR RIVER

10G11	Wy	Big Park	7	27N	117W	8620
11H13S	U	Dry Bread Pond	19	8N	4E	8350
11G7	I	Emigration Canyon	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burts-Miller Ranch	19	3N	10E	7900
10J7P	U	Hayden Fork	25	1N	9E	9400
10G12S	Wy	Kelly Ranger Station	1	26N	118W	8200
11H12P	U	Monte Cristo R. S.	4	8N	4E	8960
10G19	Wy	South Thomas Fork	27	27N	119W	7840
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G. S.	4	IN	9E	9300

MONTPELIER CREEK

11G16	I	Giveout	2	12S	45E	6840
11G33S	I	Giveout Snotel	2	12S	45E	6930
11G20	I	Little Beaver	27	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7640
11G18	I	Montpelier Creek	14	12S	45E	6540
11G26	I	Upper Home Canyon	31	11S	45E	8560
11G21	I	Whiskey Flat	26	11S	45E	6960

MINK CREEK

11G11	I	Christensen Ranch	27	13S	41E	5560
11G14A	I	Dry Basin	30	13S	42E	7820
11G6S	I	Emigrant Summit	21	12S	42E	7390
11G15A	I	Horseshoe Basin	31	13S	42E	8000
11G13	I	Liberty Spring	7	13S	42E	8600
11G9	I	Strawberry Creek	9	13S	41E	5820
11G10	I	Strawberry Mink Divide	14	13S	41E	6720

CUB RIVER

11G12	I	Cub River Ranger Station	9	15S	41E	5450
11G8	I	Franklin Basin	1	16S	41E	8040
11G32S	I	Franklin Basin Sno	7	16S	42E	8170
11G4	I	Willow Flat	11	15S	41E	6070
11G28	I	Worm Creek	28	14S	41E	6620

MALAD RIVER

12G13	I	Cliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6270
12G4	I	Dry Creek Flat	33	13S	37E	6360
12G11	I	Lower Elkhorn	30	12S	36E	6960
12G3	I	Oxford Mountain	27	13S	37E	6800
12G18S	I	Oxford Spring	27	13S	37E	6740
12G10	I	Upper Elkhorn	25	12S	35E	7140

LEGEND

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- 10J7P Precipitation gage

GOVERNMENT AGENCIES

States

Idaho Department of Water Resources
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers
U. S. Department of Agriculture
Forest Service
U. S. Department of Commerce
NOAA, National Weather Service
U. S. Department of Interior
Bureau of Reclamation
Water Resources Division, Geological Survey
Shoshone-Bannock Tribal Council

PUBLIC UTILITIES

Washington Water Power Company
Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

PRIVATE ORGANIZATIONS

FMC Corporation
Cyprus Mining Company

*Other organizations and individuals furnish valuable information for
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